re Mining 3 ournal

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

No. 642.—-Vol. XVII.

LONDON, SATURDAY, DECEMBER 11, 1847.

PRICE 6D.

Stannaries of Cornwall—In the Vice-Warben's Court.

THEREAS, the VICE-WARDEN did, by an Order, or DEFINITION S, THE VICE-WARD EN GIG, by an Urder, or become, made in the above-mentioned cause, and bearing date the 16th day of relast, ORDER and DEOREE that a SALE be made of the PARTS, or and INFEREST of the said defendant in WHEAL BUCKETTS MINE, in the REDRUTH, within the said Stannaries, under the direction of the Registrar of transit that the proceeds of such sale should be applied by the said Registrar should be supplied by the said Regi

office is hereby given, that, pursuant to the said Decree, a PUBLIC AUCTION will follow at Pearce's Royal Hotel, Truro, on Wednesday, the 15th day of December unt, at Four o'clock in the afternoon, for SELLING in such lots as shall be then and te determined on, NINE (256ths) PARTS, or SHABES, of and in the said mine, and like parts, or shares of, and in the OBES, HALVANS, MACHINERY, and TERIABS, that other EFFECTS upon, and belonging to, the said mine. Or further stormation, application may be made to Mr. H. S. Stokes, solicitor, Truro, ated Registrar's Office, Dec. 1st, 1847.

Stannaries of Cornwall-In the Vice-Warben's Court.

THEREAS, the VICE-WARDEN did, by an Order, or Decree, made in the above-mentioned cause, and bearing date the Thirteenth ay of November last, Order, and Decree, that a SALE be made of the PARTS, or SHARES, at INTEREST of the said defendant in WHEAL HENRY MIKE, in the parish of ENWYK, while the said defendant in WHEAL HENRY MIKE, in the parish of ENWYK, while the said Stannaries, under the direction of the Registrar of this Court, at that the proceeds of such sale should be applied by the said Registrar in the manner rected by the said Gorder, or Decree. Notice is Bereby given, that, pursuant to the said secree, a PUBLIC AUCTION will be holden at Pearce's Royal Hotel, Trure, on Wedselday, this Fifteenth day of December Instant, at Three o'clock in the Afternoon, for ELLING, in such lots as shall be then and there determined on, ONE (100th) PART, or RARE, of and in the said Mine, and the like Part, or Share of and in the Carles, HALANS, MACHINERY, and other EFFECTS, upon and belonging to the said Mine. For further information, application may be made to Mr. H. S. Stokes, solicitor, Truro. Dated Registrar's Office, Truro, December 1, 1847.

O CAPITALISTS AND MINING ADVENTURERS.

TO BE DISPOSED OF, the UNEXPIRED TERM of a LEASE, for 999 years, of a valuable MINE, on the north side of this island, situate at THOMASFIELD, in the parish of METCALFE, with nemerous LODES and VEINS of rich COPPER and SILVER-LEAD ORE, with other valuable MINERALS—specimens of which may be seen, and is formation obtained, on application to the undersigned.

This mine, situate in a mining district, has been inspected by competent judges, and approved of—only requiring a visit thereto, to astisty any one of the valuable indications throughout the extensive property, increasing as the same have been operated upon, and many lodes proved, in various parts of the property, with abundant water-power, convincing the most scentifical that it only requires a comparatively moderate outlay, combined with energy and schence, to change the face of that part of the country; being also but a short distance from the "Barquedier," and nearly level thereto, with timbers in abundance. A transway may be isid down at a moderate expense.

This mine may, with confidence, be recommended to capitalists and adventurers, as worthy of their early attention, and to a party disposed to work the same energetically, one-half the amount would be taken in shares, on a fair sum being obtained.

These cappy (Giv) letter, pre-paid) to E. C. LEVINE, general broker and agent. General Agency Office, Kingston, Jamaics, 1867.

UPERIOR STEAM-ENGINE.—TO BE SOLD, a STEAMENGINE, of 50-meh cylinder, dingle-acting, with 11-ton boiler, condensing apparatus, spring beams, and first piece of rod—now at WHEAL GILL, near LISKEARD, Cornwall, where it was erected new in 1845, of stone material, and on the latest and most improved principle; is perfect, and can be confidently recommended as of first-rate quality and power.—Also, a 83-fms. Ilfe of 12-inch PUMPS, with plunger-pole, case, &c., complete, nearly new; 11-inch working barrel, windbore, doorpiece, &c., in good condition, having been but a short time out of use.

Tenders for which, stating the gross sum for the engine, &c., and per ext. for the plunger-lik, working barrel, pumps, &c., will be received by Mr. R. Tajfor, the purser, on the mine, on or before the 20th inst., to whom application to view may be made. Approved bills, at two monshis, will be taken in payment.

Wheat Gill, Dec. 1, 1847.

Wheat Gill, Dec. 1, 1847.

VALUABLE PUMPING AND WINDING ENGINES FOR SALE.—TO BE SOLD, BY PRIVATE CONTRACT, at WHEAL VOR MINE, a the parish of BREAGE, CORNWALL—

1 e0-inch DRAUGHT ENGINE, 10-set stroke in cylinder, and a feet in shaft, main beam and caps, top nozzle, spring piston and rod—all new this year; with four 1 sollers, of 12 tons each, in excellent repair.

1 sol-inch DITTO, 10 feet stroke in cylinder, 74 feet in shaft, without boilers, of 10 tons each, all intely thoroughly repaired.

4 d9-inch DITTO, 9 feet stroke in cylinder, and 7 feet in shaft, without boilers, of 10 tons each, all intely thoroughly repaired.

4 d9-inch DITTO, 9 feet stroke in cylinder, and 7 feet in shaft, without boilers. of 10 tons each, all intelled the control of the control o

ALUABLE COAL MINES FOR SALE, in the county of DURHAM, situate 5 miles south-east of the city, adjacent to the York and New-tle and Hartlepool and Clarence Railways. ONE COLLIERY, comprising about 506 e., is is FULL OPERATION, producing between 7 and 8 keels of the best coal per which are chiefly sold upon the London market; and there are coke overs plant, which are chiefly sold upon the London market; and there are coke overs plant, waggions, and every requisites for incore extended working, with 60 acres of land, let 5 fair sunt. The other colliery adjoining, comprises 1500 acres, with a shaft sunk to five-quarter seam, of first-rate quality of coal, and a linestone quarry. The colies will be sold together or saparately, as also houses for the managers and workmen, in reasonable terms.—For further particulars, apply to Messra. Hopwood and Son, socs, 44, Chancery-lane; Messra. Dale, solicitors, North Shields; or James Joseph, Newoostie-upon-Tyme.

Newsastie-upon-Tyne,

YRSHIRE.—TO BE LET, the COAL, IRONSTONE, and

FRE-CLAY, in the ESTATE of WATERHEAD, lying in the parish of NEW
IROCK, the property of Sir John Catheart, Bart. This estate is in the vicinity of the
salaie fron-Works, now being erected, on the one side, and of the Daimellington fronke, on the other; and its believed the BLACK-BAND IRONSTONE, which is found
to estates of the Marquis of Bute, Craigangillan and Afton, adjoining, passes under
t 1500 acres of Waterhead lands. There are also CLAY-BAND IRONSTONE and
ESTONE in the property, and SMITHY COAL is now working within it. The Glasand Carlisle Railway, now in course of being made, passes within 3 miles of the lands.
here are various FIELDS of MINERALS in ESTATES adjoining, and in the near
thourhood, now TO BE LET, so that any company, of skill and capital, would have
le scope for establishing fron-works on a large scale,
plan of the estate, and general section of the minerals, with samples of the tronstone,
be seen on application to John Geddes, Eag., mining engineer, No. 49, Albany Arcest,
blurgh; Arthur Campbell, W.S., No. 32, Dublin-street, Edinburgh; or Mr. Kennedy
with, writer, Girvan—cither of whom will receive offers for a lease.

M. Gemmell, residing at Mckitelill, on the estate, will point out the boundaries of it.

CARMARTHENSHIRE.—TO BE LET, OR SOLD, several SEAMS OF ANTHRACITE COAL and IRONSTONE, lying under the FARMS OF CILFERY, NEW INN, FOY, and ROSEFACH, situate in the partialse of LLANGLLY and LLANGERDEIRNE, in the said county. If required, the SURFACE also will BE DISFOSED OF.—The above property is within a short distance of the Kidwelly Canal, and distant from Pembrey Floating Harbour Smilles, where the present demand for coal

and from reducey rotating furrous sinues, where the present demand reds the upply, experited are an experience of the property of the control of the control

COLLIERY TO LET, IN SOUTH WALES.—
COLLIERY TO BE LET, with immediate possession, situate within the harbour and floating dock at Llanelly, with which it is connected by a puralizond from the pit's mouth, intersecting the line of the South Wales also passes about a quarter of a mile from the pit. The Spitty Copper-With the pit, at a distance of a sew field sengith, have been very receivity taken pany, who are just now commencing operations there. Easy access to the had from the note and the pits of the pits of the pits.

quarter or a media length, have been very access to now commencing operations there. Easy access to now commencing operations there. Easy access to a entirely over the land of the owner of the colliery, agines, one of about 40, and the other 10-horse power in depth, is about 40 fathouns, passing through two-been partially worked, for the purpose of proving the latest the second of the purpose of proving the latest the province of the purpose of proving the latest the latest province of the latest latest province of the latest la

A A Meeting of the proprietor in the state of the proprietor in That the report, now read, be adopted and our a That Sir John Piris, Bart, and Capt. R. Bourn mpany, and that the Hon, J. T. Leslie Melville, and a auditors of the company, for the ensuing two ye the Deed of Settlement.

3. That a dividend of 4 meaning two years. d circulated amongst the proprieto Bourne, R.M., be re-elected director le, and Jameson Hunter, Esq., be re we years, in conformity with the pr

of the Deed of Settlement.

3. That a dividend of 4 per cent, recommended in the report now read, be payable or after the 25d December, 1847, between the hours of Twelve and Three o'clock on eaday, to such proprietors as are duly qualified to receive the same.

4. That, in the opinion of this meeting, the late deputy-chairman, Sir John Campbel the board, and managing directors, are entitled to the undiminished confidence of the proportions, and that the cordial thanks, of this meeting be offered to them, for the zerous for the second of the confidence of the confi

a, and managing directors, are entitled to the undiminished confidence of res, and that the cordial thanks of this meeting be offered to them, for the ty exhibited in conducting the affairs of the company.

ASSAYING AND ANALYSIS.—Mr. MITCHELL begs to inform the MANAGERS, &c., of MINES, SMELTING-WORKS, and MANUFACTORIES, that he still continues to GONDUCT ASSAYS and ANALYSES of all PRODUCTS, metallurgical and manufacturing, at his LABORATORY.

23, HAWLEY-ROAD, KENTISH TOWN, LONDON, to which address communications are to be forwarded.—Instruction in all branches of assaying and analysis as usual.

A DCOCK'S PATENT SPRAY PUMP.—This important INVENTION having been PERFECTED, and brought into SUCCESSFUL PRACTICAL OPERATION at LLANHIDDEL, at pits belonging to R. J. Blewitt, Esq., M. P., Llanharaman Abbey, near Newport, Monmouthshire, the PATENTEE is ready to RECEIVE, and to execute, ORDERS.—Apply to Henry Adocok, C.E., at his offices, 137, Strand, London, where pamphlets, descriptive of the invention, may be had; at the office of the Missing Journal, 26, Fleet-street; and through any respectable bookseller—prignal.

THE PATENT SAFETY FUSE, FOR SAFETY FUSE, FOR BLASTING ROCKS IN MINES, QUARRIES, AND FOR SUBMARINE OPERATIONS.—This article affords the SAFEST, CHEAPEST, and most EXPEDITIOUS MODE of effecting this very hazardons operation. From many testimonies to its userulness with which the manufacturers have been favoured from every part of the kingdom, they select the following letter, recently received from John Taylor, Eaq., F.R.S., &c.:—"I am very glad to hear that my recommendations have been of any service to you; they have been driven from a thorough conviction of the great usefulness of the Safety Fuse; and I am quite willing that you should omploy my name as evidence of this:"Manufactured and sold by the Patentees, BICKFORD, SMITH. and DAVEY, Conserve, Corawall.

W. BROTHERTON AND CO'S

PATENT LUBRICATING FLUID (or Animal oil) FOR ALL DESCRIPTIONS

W. B. & CO. have the pleasure to state, that the above article is extensively used in her Majesty's Steam Navy, and by several of the principal Steam Navigation and Railway Companies, and is pronounced by them, and by the first practical engineers of the day, to be far better adapted for the purposes of lubrication than any other article hitherto used for such purposes. The Fatent Lubricating Fluid is equally applicable for the most intricate and fine pieces of machinery, as for the heaviest bearings of the steam-engine. It is cheaper, much more economical, and cleaner than oils at present in use; is free from smell, and calculated to effect a vast swing in the expenditure of working steam powers. Further particulars can be had, and testimonials seen, by application to the manufacturers, W. BROTHERTON & CO., Hungerford Wharf, Strand, London, N.B.—The above article will burn in lamps, and give a light equal to the best sperm oil.

FLEXIBLE HOSE-PIPES FOR LOCOMOTIVE ENGINES, RAILWAY ORANES, FIRE-ENGINES, GAS, &c.

PATENT VULCANISED INDIA-RUBBER HOSE-PIPES AND TUBING

OF EVERY DESCRIPTION.

These pipes are made to stand hot-water without injury—are very superior to leather pipes, or the common india-rubber pipes, and, as they do not become hard or stiff in the lowest temperatures, or require any application when out of use, are particularly well adapted for fire-engines.

**FLEXIBLE TUBING, of every description, for gas, chemical purposes, &c.

VULCAMISED INDIA-RUBBER WASHERS, all sizes, for steam and hot-water joints, &c.—Sole manufacturer,

Goswell Mows, Goswell-road, London.

Goswell Mows, Goswell-road, London.

VIADUCTS AND OTHER RAILWAY WORK.—The attention of Railway Engineers, Architects, and Contractors is particularly directed to the great advantages to be derived from the application of SEYSSEL ASPHALTE, as the only impervious and permanent covering for arches and roofs, and lining of reservoirs, guitters, &c. The arrangements of CLARIBGE'S PATENT ASPHALTE COMPANY enable it to execute works of any extent with the greatest promptitude.

In order to guard against the use of spurious materials, it is important that all applications for works to be executed be made direct to this company; and, as a further profection, it is suggested that Engineers, Architects, and Contractors, should require a CERTIFICATE from the company that the proper description of material has been used.

Information may be obtained as to all works which have been executed by the company since its establishment in 1888, which will prove that the failure of many works represented to have been done with the genuine material has resulted from the substitution of a spurious one.

Seyssol Asphalte Company, Stangate, London.

OFFICE FOR PATENTS, 7, STAPLE INN, HOLBORN,
Informs INVENTORS and PATENTESS, that, as his OFFICE, they can obtain
REFERENCE TO A CLASSIFIED LIST OF PATENTS.
(THE ORLY ONE EXTANT), which shows at one view all the Patents over granted for any
particular one extant), which shows at one view all the Patents over granted for any
particular object, whereby they may save much trouble and expense, and procure information not otherwise obtainable. BRITISH and FOREIGN PATENTS OBTAINED,
and USEFUL and ORNAMENTAL DESIGNS REGISTERED.
SPECIFICATIONS carefully prepared, and REPORTS of ENROLLED SPECIFICATIONS furnished on moderate terms.
FINISHED and WORKING DRAWINGS executed with accuracy and dispatch.

THE PATENT OFFICE AND DESIGNS REGISTRY,

No. 210, STRAND, LONDON REGISTRY,
INVENTERS will receive (gratis), on application, the OFFICIAL CIRCULAR OF
INFORMATION, detailing the eligible course for PROTECTION of INVENTIONS and
DESIGNS, with Reduced Scale of Fees.

Messrs, F. W. CAMPIN and CO. offer their services, and the benefit of many year's
experience, in SECURING PATENTS and REGISTRATIONS OF DESIGNS, with due
regard to validity, economy, and dispatch—assisted by scientific men of repute.

Also, in MECHANICAL and ENGINEERING DRAWINGS, whether connected with
Patenus, Railways, or otherwise, by a staff of first-rate draftsmen.

Application personally, or by letter, to F. W. Campin and Co., No. 210, Strand (corher of Essex-street).

PATENT IMPROVEMENTS IN CHRONOMETERS, WATCHES, AND CLOCKS...E. J. DENT, 82, Strand, and 33, Cockspur-street, watch and clock naker, BY APPOINTMENT, to the Queen and his Royal Highness Prince Albert, begs to sequaint the public, that the manufacture of his chronometers, watches, and clocks. 4s secured by three separate patents, respectively granted in 1836, 1840, 1842. Silver lever watches, jewelled in four holes, 6 gs. seach; in gold cases, inguistic cases, inguistic cases, in the control of the c

INFLUENZA, COUGHS, COLDS, &c..—This week, upwards of 50 testimonials have been received of the emeacy of Dr. LOCOCK'S PULMO-NIC WAFERS.—From Mr. James Drury, Medicine Warchouse, 224, Stone-bow, Linconi:—"Gentiemen.—I am authorised by several ladies and gauntiemen (whose tames I can give if required) to state, that Dr. Locock's Wafers have proved of the highest efficacy to them for colds, coughs, hoareness, wheeing influences, sore throst; and in almost every case I hear of benefit obtained by their use, &c. (Signed).—Jas. Daux...—Dr. Locock's Wafers give instant relief, and a rapid cure of asthma, coughs, and all disorders of the breath and lungs. To singers and public speakers they are invaluable for clearing and strengthening the voice—they have a pleasant taste.—Price Is 14d, 28. 6d.,

PENINSULAR AND ORIENTAL STEAM NAVIGATION TO IRONMASTERS AND MANUFACTURERS.—Ar COMPANY.—At a Meeting of the proprietors of this company, held at their offices,

TO RAILWAY CONTRACTORS, COLLIERY OWNERS RON MERCHANTS, AND OPHERS.—TO BE DISPOSED OF, BY PRIVATE ODTRACT, TWO OT THERE HUMBINDS TONS OF CONTRACTORS' RAIL, but, as it is given the property of the pro

CHINA CLAY WANTED, FOR EXPORTATION.—Samples of the best qualities, with prices, free on board at a shipping port, to justified, post free, to Mr. G. Dressler, 6, Idel-lane, City.—

FOR SALE, a 70-inch cylinder ENGINE, without boilers. For price, and further particular, please apply to Samuel Grose, Esq., engine wall, Gvinear, Camborne.

STEAM-ENGINES.—From 8 to 20-horse power ENGINES ALWAYS IN STOCK.
Apply to Mr. GAPPER, Engine-Maker and Founder, BIRMINGHAM.
Price—£13 to £16; with boiler, £32 per horse.

WANTED—A CORNISH PUMPING-ENGINE, either NEW or SECOND-HAND, in good condition, with cylinder, from 80 to 90 inches diameter; likewise, shout TWO HUNDRED and FIFTY YARDS of PUMPS, 18 to 22 inches diameter.—Address, stating particulars, Mr. John Lancaster, Mostyn Colliegy, near Holyweil.

WILSON & FRASER, 2, WELLINGTON-BUILDINGS
LIVERPOOL, and 15, EXCHANGE-PLACE, GLASGOW, have always ON SALL
PIG-IRON, BAR-IRON, RAILWAY CHAIRS, and RAILWAY BARS.

MR. R. TREDINNICK, THREE KING'S COURT,

LOMBARD-STREET, LONDON,

Continues to DEAL in every description of MINING, RAILWAY, BANKING, INSURANCE, CANAL, and OTHER SHARES.—Statistical information afforded gratuitously,
upon personal application.—MONEY ADVANCED upon the above securities:

JAMES LANE, MINING SHARE DEALER, 75, OLD BROAD-STREET, LONDON.

BRITISH MINING OFFICES, No. 12, HAYMARKET,
And No. 41; MOORGATE-STREET, LONDON,
And No. 4, STAMP-OFFICE RULLDINGS, MANCHESTER,
At either of which places PROSPECTUSES and SHARES in the various SILVER-LEAD
and COPPER MINES connected with these offices, may be obtained. may be obtained.
T. H. TAUNTON, London. 32
W. SHEARMAN, Manchester.

MONE Y.—MESSES. KILLICK & CO. (late Winstanley, Killick, & Co.), SHAREBROKERS, inform their friends and the public, they make IMMEDIATE ADVANCES, to any amount, on the deposit of English and Foreign Railway Shares, Serip, and Debentures, upon exceedingly advantageous terms: they also BUY and SELL Steiry description of STOCK and MINING SHARES, at much less commission than usalily charged.

6, Bank Chambers, opposite the Bank of England.

CRAIG-DDU SLATE COMPANY, FESTINIOG, MERIONETHSHIRE, NORTH WALES.—This company is now COMPLETELY REGISTERED, and the FIRST CALL of ONE POUND per share paid-up. The men are now
making slate with Nos. I and 2 bargains. The slates prove to be of superior quality.
No. 3 bargain is progressing satisfactorily in the clearing, and there are several cargoof slates and slates on the whart beapoken.—Dec. 9, 1847.

of slates and slabe on the wharf bespoken.—Dec. 9, 1847.

OOMBE VALE CONSOLS MINE.—At the adjourned Meeting of the shareholders in the above mine, held at the King's Arms Inn, Launceston, on Monday, the 39th Nov., 1847, it was resolved:—

That those parties who are in arrear be immediately sued, and be compelled to pay up their amenut of calls.

That Messrs, Richard and John Doidge be allowed until the 20th Dec. next to dispose of the mine; and that, in so doing, they take all the materials in the mine, subject to a price to be paid for the same, according to the valuation of two referees—one to be chosen by Messrs. Doidge, and the other by the company, or by an umpire to be chosen by such referee; and in case either the sald Messrs. Doldge, on their part, or the said company, on their part, shall, after six days notice from the other of the said parties, refuse or neglect to appoint a referee, then the referee of the party giving such notice shall alone fix the price to be paid or received (as the case may be) for the said materials.

I beg to add, that any of the present adventurers, who may desire to continue of efficing, will have every facility for so doing.

JOHN T. FEARSE, Purser.

Launceston, Nov. 30, 1847.

MERIONETHSHIRE SLATE & SLATE SLAB COMPANY.

—Notice is hereby given, that all SHARES in this company, upon which the CALL of 10s, per share, made on the 4th day of April last, be NOT PAID into the Commercial Bank of London; Lothbury, on or before the 13th day of December next, will be considered PORFEITED, and disposed of pursuant to the terms of the Deed of Settlement 5, Walbrook, London; Nov. 30, 1847.

W. WEST, Manager

MERIONETHSHIRE SLATE & SLATE SLAB COMPANY. — Notice is hereby given, that the TIME for PAYMENT of the CALL, made he 12th of July last, is EXTENDED, and that the same must be PAID into the Cannerial Bank of London, Lothbury, on or before the 1st day of January next; or, in ault thereof, the shares are liable to forfeiture, pursuant to the provisions contained he Deed of Settlement.

6, Walbrook, London, Nov. 30, 1847.

HYMNEY IRON COMPANY.—The directors give Notice
to the holders of £15 share scrip certificates of this company, that the THRD
and LAST INSTALMENT of TWO POUNDS per share is hereby CALLED FOR, and
PAYABLE to Messrs. Glyn, Halifax, Mills, and Co., Lombard-street, on Thursday, the
20th January, 1848.
Laurence Pountney-hill, Dec. 10, 1847.

RELEIGH CONSOLIDATED MINING COMPANY. The directors hereby give Notice, that a MEETING of the sharehold HELD at the office on Monday, the 3d of January next, at One o'clock preche scounts for three months, ending the 31st December, will be laid before 57, Old Broad-street, Dec. 10, 1847. WM. NICHOLSON, S

WHEAL TRESCOLL, OR THE MODEL MINE-bein AMESOCOLIL, OR THE AUDIDEL MINE—bet an EXPERIMENT in MINING, on an entirely new principle.—Oz January 1848, will be ISSUED to the PUBLIC a PROSPECTUS, describing a PLAN of OPER TIONS, whereby MINING may be CONDUCTED and CARRIED OUT on as FAIR a LEGITIMATE a MANNER as any other branch of civil engineering. Any gentlem wishing to become a patron to the Reform Mining System, may have a private interviwith one of the projectors, by calling at the office of Mr. C. S. Richardson, C.E., 5, Whither the control of the projectors of the control of the control of the projectors of the control of the control of the projectors of the control of the control of the projectors of the control of the control of the projectors of the control of the control of the control of the projectors of the control of th

STRONG MIXING PIG-IRON.—The YSTALYFERA
IRON COMPANY beg to solicit ORDERS for their ANTHRACITE PIG-IRON.
This from mixes well with Scotch pig—imparting to it strength and clasticity, and receiving from it a portion of its softness and fluidity. No. 3 Pig is recommended for mixing with soft from—Nos. I and 9, for maschinery castings, requiring great soundness and give the soft from—Nos. I and 9, for maschinery castings, requiring great soundness and in the construction of the constr

rios from it a portion of its sortness and fluidity. No. 3 Fig is recommended for ing with soft iron—Nos. I and 3, for machinery centings, requiring great soundness as strength. At this period, when cast-from is so much employed in the construction bridges and other buildings, requiring all the strength and elasticity which the best miture of metal will afford, it may be interesting to call attention to the clearacteristics ANTHRACITE FIG-IRON, as american on by this great practical authority, the la DAVID MUSIEF, Eq., M. I.O.E.:—

"It greatly cacceds, in strength, in defective powers, and capacity to resist impact, in iron at this time manufactured in the United Kingdom."

"It now only remains for me to mention a proparty peculiar to this from, which we noticed at the time I made the trial experiments, four years ago, but which has been mor fully developed in those more recently made. The property referred to is one of greatyristics, or elessicity, which communicates a tendency to the bar, in deflecting an interesting to resume its rectangular form. Bars that had obtained a permanent set 2.-10ths, when afterwards braken, presented but a slight deviation from a right line; and no case, did the curvature exceed one-fourth of a tenth."

"It was also remarked, that most of the fractures, in breaking, presented a regularity of greats throughout, resembling the structure of unbardened steel."

Near NEATH, SOUTH WALES.

"I OT-RIAST WITHOUT COAL, LABOUR, on REPAIRS

HOT-BLAST WITHOUT COAL, LABOUR, on REPAIRS.

Apply for particulars, or to haspeet the process in operation on six blast-furnaces, by all media.

Lid. 28, 60, by all media.

Palmer Badd, Esq., Ystalyfora Iron-Works, near Neath.

Deted June 22, 1847.

IR JAMES MURRAY'S FLUID MAGNESIA.-Prepared selegant proportion is resonanced as the most are, and effectual form in which most are, easy, and effectual form in which it properties of the only one in which it ought—to be calibited, possessing all the properties of eads now in general use, without being liable, like it, to form dangerous concerns to bowels, it effectually curse mearances without injuring the cents of the stomas, a potass, and their carbonates are known to do; it prevents the food of infa gour; in all cases it acts as a pleasing aperions, and is peculiarly adapted to. It has long been known that the most serious consequences have frequently from the need so do lift magnesis, which has been proved by Mr. Brande and macminent chemists, to form concerdions in the lowels, endangering, and, in so cose, destrooring life.—Sir HUMPHERY DAVY testified that this solution for e combinations with uric acid safes in cases of gout and gravel—thereby counters come in the complex of the complex o

their injurious tendency, when other alkalies, and even magnesia itself, had failed from Sir PHILIP CRAMPTON, Bart., Surgeon-General to the Army in Ireland & Saa Sura,—There can be no doubt that magnesia may be administered more safely form of a concentrated solution than in substance; for this, and many other reaso of opinion that the fluid magnesia is a every solutable addition to our Materia Medica LIP CRAMPTON."—Sir J. Clarke, Sir A. Cooper, Dr. Bright, and Messur, Guth Herbert Mayo, of London, strongly recommend Murray's Fluid Magnesia, as beliefly more safe and convonient than the solid, and free from the danger attending than tues of soda or poless.

Constant use of soda or potess.

Letter from J. Murray, Esq., Lecturer on Chemistry, F.S.A., P.L.S.:

"Dear Sun J. Murray, Esq., Lecturer on Chemistry, F.S.A., P.L.S.:

"Dear Sun J. Murray, Esq., Lecturer on Chemistry, F.S.A., P.L.S.:

"Dear Sun J. Murray, Esq., Lecturer on Chemistry, F.S.A., P.L.S.:

"Dear Sun J. Murray, Esq., I was the second of the common sun and the second of the second

"To Sir James Murray, Dublin.

The following testimonial of the celebrated "Distin Family," who are well known to her Majesty and the nobility of England, proves the great value of Sir James Murray's mid magnesia, and is very encouraging for delicate persons going to sea!—

"Six.—Having arrived from Glagow, per the steam-ship Jopider, in this stormy stary, without the slightest sea sickness, we feel bound to attribute this examption to the most agreeable efferences draughts of your solution of magnesis and acklulated grap, which were kindly furnished to us by that attentive officer, Capl. Ellis. Upon all former occasions we were martyrs to sea sickness, and we think it agreat blessing that travellers may now enjoy such health and centrify at sea, as we derived from the use of this delight." To Sir J. Murray.

Tuthill's Hotel, Dawson-street, Dublin, Feb. 19, 1839."

From Dr. KENNEDY, Master of the Lying-in Hospital, Dublin:—

"DEAS EIG.—I consider the fluid magnesia to be a cery voluable and convenient remedy in cases of irritation or acidity of the stomach, but more particularly during pregnancy, febrile complaints, finantic diseases, or sea sickness."

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CAUTION.—In order to avoid the danger of concretions and sediments, which resul*

best remedy for gravel and gout.

CAUTION.—In order to avoid the danger of concretions and sediments, which resultered the use of over-saturated and unchemical compounds, made by non-medical persons, the public will please to observe, that Sir James Murray's pure fluid magnesia is repeared of that proportion of strongth which is conformable to the laws of chemical equivalents, and which has been proved, in hospital and private practice, during the last 30 eraws, to be the best adapted for the human stomach, and the most suitable for the treat

prepared or mat proportion of strongth which is conformable to the laws of chemical equivalents, and which has been proved, in hospital and private practice, during the last 30 years, to be the best attapted for the human stomach, and the most satisable for the treat ment of females and children.

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that his name is stamped on each label, in grees size, as follows:—"James Murray, Physician to the Lord Licuterrant."

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The author of this singular and claimet dwork is a legality qualified medical man, who
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replied to, that admit of no appeal, even to the most considential friend. — Era.

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postage stamps. HE SILENT FRIEND: a medical work, on the infirmities

Transactions of Scientific Bodies.

MEETINGS DURING THE ENSUING WEEK. MEETINGS DURING THE ENSUING WEEK.

Royal Botanic—Inner Circle, Regent's park
Geographical—3, Waterloo-place
Eritish Architects—16, Grosvenor-street
Medical—Bott-court, Fleet-street
Medical and Chirungical—53, Bernera-street
Zoological—11, Hanover-square
Syro-Egyptian—71, Mortimer-street, Cavendiah-square
Society of Arts—Adelphi
Geological—Somerast—house
Antiquaries—Somerast—house
Antiquaries—Somerast—house
Westminster Medical—17, Saville-row
Westminster Medical—17, Saville-row

on Mining, & the Practical Applications of Seological Science. PROF. ANSTED'S LECTURES, AT KING'S COLLEGE

for AMSTED said that, at the close of his last lecture, he had left his said that point. And, first of all, the inquiry arose very naturally, the shaft being completed and the coal found, why the miner did not proceed at once to extract the mineral, cutting it away in any manner which might seem at the moment convenient, without regard to any plan or system? But it was, nevertheless, absolutely necessary to have a plan, a well-considered plan, and only he means to the mineral cutting it away in any manner which might seem at the moment convenient, without regard to any plan or system? But it was, nevertheless, absolutely necessary to have a plan, a well-considered plan, and coulty necessary to adher to it never the interest. In flat joint. And, fixe of old, the figuity rative very minarely, the shat being completed a man the coal found, why the minor did not proceed at once to extract the minoral, cut-the, it was jud and the coal found, why the minor did not proceed at once to extract the minoral, cut-the, it was jud to any planes why the minor and equally accessory in althree to its most strictly, for even very cognitive or yellow. The transport of the minor travel is the plane a spirit of any manner which in the collection of the

THE SILENT FRIEND: a medical work, on the infirmities and decay of the generative system, frees excessive indaigence, infection, and the inspiral time of successive system, frees excessive indaigence, infection, and the inspiral time of successive system, frees excessive indaigence, infection, and the inspiral time of successive system, frees excessive indaigence, infection, and the inspiral time of successive system, frees excessive indaigence, infection, and the inspiral time of successive system, frees excessive indaigence, in part of the sustem is successive system, frees excessive indaigence, in part of the sustem is successive indaignment. Fair rus Second resets of the consequence of neglect and the sustem produce of the sustem produce of the sustem produce in the sustem provides in the sustem produce in the sustem produce in the sustem pro

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On Eron-its Actibe and Inactibe States. ME. THOMAS SPENCER'S LECTURE AT LIVER

NH. THOMAS SPENCER'S LECTURE AT LIVERPOOL.

All in the slightest degree acquainted with chemistry, are aware that iron is largely solvent in the minoral acids. When immersed in either nitrie, sulphurie, or muriatic acid, a most energetic action at once ensues, gases are abundantly evolved, while the iron itself is rapidly taken into solution. The action that takes place when the metal is immersed in the two first acids, is said to be due to its strong affinity for oxygen, while immersed in the two first acids, is said to be due to its strong affinity which tron, and

acid, a most energetic action at once ensues, gases are abundantly evolved, while the liron itself is rapidly taken into solution. The action that takes place when the metal is immersed in the two first acids, is said to be due to its strong affinity for oxygen, while its action is muriatic acid is regarded as arising from itse high affinity which iron, and the metals have for the chlorine which forms she basis of this acid.

According to generally received opinions, the chumical action that takes place between the most acid and those scale is a more case precisely alike. With regard to nitric acid, the metal is said to decompte is in no case precisely alike. With regard to nitric acid, the metal is and to decompte its then attous acid is visibly given off is gaseous tunes during the operation—this lates ead containing just an equivalent less oxygen than nitric acid. With regard to entered, it must stop to observe, that the substances writely termed authorized, has none acid, in most stop to observe, that the substance strictly termed authorized, has none acid, in most stop to observe, that the substance strictly termed application, however, abullate substance—an exist of subject. The subjuture acid of commerce, however, abullate substance—an exist of subject. The subjuture acid of the complex colors and the process. Lattly, with regard to nutriate acid, although shydrogen is also given off auring the process. Lattly, with regard to nutriate acid, although shydrogen is also given off auring the process. Lattly, with regard to nutriate acid, although shydrogen is also given off agaseous body (chlorine and hydrogen) in valor, the iron is said to possess so high an affinity for chlorine, as to combine with it, although water is largely present, and the resulting hydrogen is that belongine with it, although water is largely present, and the resulting hydrogen is that belongine with it, although water is largely present, and the resulting hydrogen is that belongine with it, although water is largely cream, and the r

mersed in either solution, it is dissolved, and a sait of from is formed; but, instead of hydrogen being evalved, we have copper or silver precipitated; these metals holding the same place in the solids that hydrogen did at the commencement of the precipitates copper or silver from their acid solution. It has also been shown, at some length, that is largely combines with oxygen during modes atmospheric exposure. Indeed, these may be termed prominent laws in the nature of this metal—laws which we constantly see in active exertion; and I can readily imagine how exceedingly startled the first experimenter must have been, who saw or first remarked, their apparent suspension; who discovered, in fact, that it was possible to immore clean bright from, unaked by mechanism or the present of the present of the same present of the cal protection, into nitric acid, without the slightest action being visible; and not only so, but the still more startling fact, that this acid of immersion, which in all former cases did, in a sease, destroy, now, on the contrary, operated to preserve; but, more receardable still would it be to observe, that the hitherte active surface of the fron had now become so insensible to outward objects—or, to borrow an appropriate medical phrase, so existing the precipitated, or even its own surface receiving the eligibest diminution of brightness. I shall now proceed te give, a summary of the means by which this may be accomplished, and, be if understood, that a detail of one or two methods will be amply afficient to illustrate all the series. It has been previously shown that the constitutional carbon of steel will preserve the motal from the action of mitra cale, or, perhaps, more correctly, the carbon preserves the acid from being decomposed by the fron. It will now be seen that this occult property of preservation is possessed in much higher degree by some other bodies. To demonstrate this by experiment, it will be assessary to procure a few slips of clean trow wire, 6 or 8 inches long, and one-eighth of as inch diameter. Of course, there is no limit to the dimensions, only as respects convenience of handling. Let a glass also be procures, nearly filled with nitric acid of the specific gravity of from 1300 to 1350, and deposit a piece of platinum, or a gold coin, at the bottom, in the acid, or the specific gravity of from 1100 to 1350, and deposit a piece of platinum, or a gold coin, at the bottom, in the acid, or the specific gravity of from 1100 to 1350, and specific processes of the first of course, many first counts in the acid, rapid and intense action will ensue, which, as soon as the wire comes into contact with the platinum, or gold, cases, nor is it a temporary consultant, for the platinum may be removed and the metal kept inneres of corrector than it is distilled water. But, even more than this respect brought gradually and is succession. A wire thus treated may be removed into another vessel of seld, and still retain its inactivity; it may even be removed into a solution of nitrate of copper or silver, without any precipitation of those metals taking place. If washed in water, so as personly to remove the acid, it may be exposed to any amount of atmospheric moisture without traces of corrosion becoming visible. In short, we thus withing a total suspension of some of the most prominent laws in the nature of this netal. Next to the property of magnetism, so give-eminently possessed by iron, I am not aware of sury phenomena within the range of experimental philosophy more calculated to excite wonder, nor any which, in the first instance, must have excited greater loops of highly useful results arising therefrom in practice. Remarkable, however, as they may appear in themselves, still persons, somewhat acquainted with galvantsm, would not feel inclined to view them as being much out of the common order of things. It might recur to them, that Sir H. Davy (by a train of as high inductive reasoning, allow me to sid, as was ever brought to bear on a practical subject) showed how copper might be preserved from corrosion by placing small stude of sinc in contact with it; but, this fiet, although apparently analagous, has no right to be considered of the same class as the praceding, as we shall see on further examination. In the case of the preservation of copper, the case metals a preserved at the supense of the other; that is, the sinc studes are gradually dissolved by the action of sax water, while the volume force thus generated diffuses its protecting finitence over a surrounding protess of the copper; but this no longer exists when the sinc is either removed or dissolved.

[To be concluded in next uself: Mining Journal.]

WESTERN LITERARY INSTITUTION, LEICESTER-SQUARE

This institution, having been closed for a cartain period, was re-opened on Monday evening. Mr. R. Hunt delivered an inaugural address, illustrative of the present state of science in Britain, on the occasion. Previous, however, to Mr. Hunt's addressing the auditors, Mr. Marcona (the secretary) stated, that he had re-opened the restitution under an entirely new management, which he hoped would, by its efficacy, give general attifuation. Mr. Howe then commenced his satirous, by altuding to the late discoveries made in astronomy, and that important one made by Fre' Faraday, the magnetization of light. Science (said Mr. Hunt), was in the present time cramped by a marketable value being

mit. Parties choose rather to adapt what was found out to the mere usances of the world—this retarded science. If this had been the case

SOCIETY OF ARTS.

SOCIETY OF ARTS.

DREMBER 1.—WILLIAM Wron, Esq., B.A., in the chair.

Five specimens of painting on glass, by M. De Ron, of Munich, were exhibited. The SECRETARY stated, that the colours used by M. De Ron are peculiar, and the method of preparing them known only to himself. The colours used are glasses of different degrees of hardness, care being taken, in using them, never to be a brider upon a softer metal. Also, he uses both sides of the glass—this enables him to be a brider upon a softer metal. Also, he uses both sides of the glass—this enables him to be a brider upon a softer metal. Also, he uses both sides of the glass—this enables him to than clearness and decision of Glour.—Mr. Hart. Offered some remarks on the likeory and manufacture of stained glass, and exhibited several specimens of modern manufacture.

Mr. B. Mourzon exhibited a model of an iron trans railway bridge, the invention of Mr. Rider, of New York. The peculiarities of this bridge are, its simplicity, lightness, and strength. Mr. Moutton stated, that the directors of the New York and Haarlen railroad have erected a bridge on this principle, the span of it being 70 feet, and having a double track, or roadway, upon it; and the whole weight of metal used in its construction weights only 13 tons, while its cost was under 500f. [A notice of Mr. Moulton's bridge spacered in the Mining Journal of the 6th November.]

A paper was read by Mr. Archers, on Engraving, with reforence to monumental brasses and incleed stones.—The author commenced, by referring to the very early period at which the art of engraving appears to have been known and practised by the lapidary and goldsmith, and the productions according to a given standard, set up by the heads of their order—thus giving a singular uniformity to the numerous examples of antique art, whether in painting, sculpture, or engraving, and similarity and common origin, he proceeded to point out the various purposes to which the art of engraving on the Experior Augusta. Having touched upon some key inst

ON STEAM-BOAT EXPLOSIONS.

châte to the society at an early period.—The discussion on this piper was possibled.

ON STEAM-BOAT EXPLOSIONS.

To the Br. Hos. Load Dexials, Lord Chief Justice of Her Majesty's Court of Queen's Bench. Mr Load,—In continuing my remarks from my letter in last work's Mining Journal, I shall have to call to your Jordship's notice some of the evidence, as addened before the coroner's court—this I do for the purpose of showing how material it would have been for the interests of the prisoner that some individual in his behalf had been examined. The first witness I will introduce to the notice of your lordship is the discharged stoker. Edwards, considered by all a vindictive man—here is a winces, who, having been cognizant of the 'practices carried on in this vessel for months, made no remark—with the exception of the cortice of the co which high-pressures are employed—place every requisite—construct every appendage, so that it cannot be accidentally deranged—leave it out of the reach of probability, that an accidental derangement can take place; it then resolves itself, such precautions being employed into a wiful act, and one that ought, in the opinion of your lumble servant, rank next to murder in our criminal code. Public safety calls for such an enactment—common sense dictates its absolute necessity. If it had been intended, in the present instance, to work to only a to 48, why place a weight, that could accidentally shift to 66? If intended to work at its maximum to 60, by the Salter's spring balances, why place a screw to the Salter's balance, that could be accidentally screwed down to exert a pressure, at its maximum, of 170 lbs. to the square inch, one hundred and ten pounds above the pressure required, and over forty pounds above the supposed bursting pressure? Had this screw been provided with a stop, when scrowed down to 35 or 40, it could not, by accident, have exerted a greater pressure, the screw ought to have been so constructed in this balance, that the nut, when scrowed down to its utmost (3½ in.), would go no further. It would then indicate 35 on the balance, and exert 70 on the boiler. But, as applied in this vessel, by screwing it down 1½ in. lower from 46, where Skinner left it, it would then show 60, the pressure the man would naturally infer existing within the boiler, and one which he deemed anfe; whilst the real pressure would be 130, or that at which rupture commence in the unexploded boiler, when subjected to the hydrautic feet. Why was this sent out indicating only hat for real pressure?—Intait was so, none can deny. Why it was so, is a point, with many others, that Mr. Joyce or his foreman ought to explain to the public. Ishall now, my lord, bring this subject to a close, by showing, that the negligence of which your lordship charged the prisoner—not, however, intentionally—in omitting to 'turn of the stoam, on h

must remove the top of the steam casing; he must then unscrew the Salter's spring balances; and, finally, if both weighted levers be required to be lifted, cut away, by means of a hammer and chieck, the it Angels from, which supported the flat plate, forming a pertion of the top of such tasen casing—an operation that would occupy some ning a pertion of the top of such tasen casing—an operation that would occupy some ning of the control of the property of a support of the property of a support of the control of the property of a support of the control of the property of a support of the control of the property of the actual state of the iron at the point where the rupture commenced. "It will be in the recollection of all that, in the evidence given by Mr. Joyce before the corone, the following statement was made:—"The bolies of the Asi and Bee were made by Measrs. Horton; their front plates of the actual the state of the corone of the corone of the Cricket was considerably over the corone of the corone of the Cricket was considerably over the corone of the corone of the Cricket was considerably over the corone of the Cricket was considerably of the pant by the corone of the Cricket, at the city of the pont of the section of the Cricket, at the corone of the C

DESCRIPTION OF THE ENGRAVINGS.

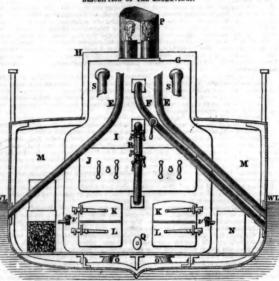


Fig. 8—Is a cross section of a river steam-boat, of the usual construction, at the front of the boller, showing the means adopted for safety to enable the engineer to turn of the steam, when stopping at the piers, the work of an instant—such means not being adopted in either Cricket, Ant, or Be steamers. A, A, valve-boxes, shown in section at \$B_0\$ 3. E, E, wasto steam-pipes, of same area as the valve, to convey the surplus steam under water. F, auxiliary steam-pipe, which conveys the steam direct from the boiler, also under water. G, top of steam-chest of boilet. H, steam casing, surrounding such steam chest. I, an oblong hollow tube, communicating at its lower ends with the water, and at its upper end with the steam in the boiler; to this tube is affixed the gauge-cocks, and the water-gauge as shown. J, front part of smoke-box, which is taken down to clean the tubes; this part is constructed to allow of the passage of air in at its lower part, and out at the top, to keep the engine-room cool. K, K, imrance doors. L, L, ashpit doors; on stopping, the invariable practice is, to open the furnace doors, K, K, ashpit doors, L, L, L, M, M, coal-boxes on each side of boiler. N, N, doors in coal-boxes. O, O, two pipes, affixed under the bottom of boiler, for blowing out the mechanical impurities which settle to the bottom of the boiler. P, L unnel, situated immediately at back of valve-boxes, A, A. W, L, water-line of vessel. Q, mud-hole door.

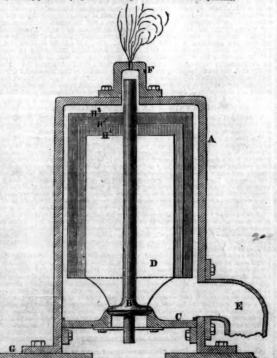


Fig. 9.—An enlarged section of one of the valve-boxes, A, A, which shows that fir thosesels the valve is out of the power of the engineer to alter, as in the scaled valve, which is Belgian Government compel all who use steam in that country to employ. A, outer seing. B, conical valve. C, valve senting. D, lead weights, on the upper portion of

valve-spindle, which is maintained in a vertical position by the lower guide kmnediately under the valve seating, and the upper guide, or bonnet, F, which is perforated with a small hole, that tells when steam is blowing. H I, shows the size of weights employed in the Chiters, and other 24-horse power nominal boilers. H 2, the size used in the Waterman and Woolwich steam-boats of 27 nominal horses-power. H 3, the bias that would have been requisite for the Criter's high-pressure boilers, of the same nominal horse-power. E, waste steam-pipe, leading under water—such pipe having a small hole drilled in it in the engine-room, to prevent the formation of a vacuum in the pipe. G, top of steam casing. This is the form of safety-valve now becoming general, which, had it been employed in the present case, would have rendered the valve-tying system of this company's superintendent, Clark, and others, inoperative.

MMPROVEMENTS IN RAILWAY CARRIAGE WHEELS

[Specification of patent granted to Robert Heath, gent., of Manchester, in the county of menaster, for certain improvements in wheels, to be used upon certain rail and other roads; which improvements are also applicable to mill gearing and other similar.

Specification of patent granted to Robert Heath, gent., of Manchester, in the county of Lancaster, for certain improvements in wheels, to be used upon certain rail and other roads; which improvements are also applicable to mill gearing and other similar purposes. Journal.

This invention, which is applicable to carriage wheels, and also to mill gearing, consists in the peculiar formation of the wheels, in connection with the particular relative proportions of the different parts of the same, whereby the contraction consequent upon the cooling of the metal in casting is caused (instead of weakening the wheel), to bind the whole together into one solid mass. The wheels are in the first place formed entirely of cast-iron; and, although any kind of metal may be used, the patentee prefers to make them of what is called "cold-blast" metal, as being stronger and tougher than any other. The proportions which the patentee employs, and which he claims as his invention, are as follows:—The outer rim and the boss of the wheel are three times the strength of the arms, or thereabouts. Hitherto, cast-iron wheels have been ilable to break, chiefly from want of a sufficiency of metal in the rim; because, when the rim is not sufficiently strong, it cools first during the process of casting, and the contraction of the rim cases, while the contraction of the arms and boss are still going on. By making the rim is greater, and lasts longer than that of the arms, and thus the arms and boss of the wheel are bound firmly together by the contraction of the rim. This perfect contraction of the whole causes the rim to assume a correct circular form, so as to require no subsequent turning prior to use. The arms may be made either flat, round, or of any other shape; but they must retain the same sectional thickness at the rim as at the boss, and without any flanges or ribs, so that the arms shall not contract more or sooner at one place than at another. It is also preferred to make the whole such as a subsequent to the proportions are appli

ACCIDENTS.

Cyfarth/a Sione Quarry.—T. Hickey was killed here by a fall of rubbish.

Glyndyry's Pit.—J. Harris was killed on the spot by the fall of a stone, weighing about 6 tons, and J. Evans so much injured, that life is despaired of.

o tons, and J. Evans so much injured, that life is despaired of.

Banker's-hill Colliery.—A lamentable accident occurred here on Saturday last—five men
(Banker's-hill Colliery.—A lamentable accident occurred here on Saturday last—five men
(Bandel) Taylor, J. Parker, J. Wulker, E. Whistance, and A. Ball) were being let down
the shaft in a skip, while the water bucket was ascending the other; suddenly the engine was reversed, when the skip was thrown with great force over the pulley; Whistance and Ball fell down the shaft and were killed on the spot—the other three saved themselves by clinging to the pit frame. Dainty, the engineer, immediately absconded, but
surrendered to the coroner's inquest, when the jury found him guilty of "Manslaughter,"
and he was committed to take his trial at the assizes.

and he was committed to take his trial at the assizes.

Spital Tongues Colliery, Neucastle.—W. Watson was killed by a fall of stone from the roof,

Calculta.—A Calcutta paper states the first explosion of fire-damp which has ever happened in an Indian coal mine, occurred in the mines of Messrs. Erakine and Co., at Sanadianan, near Mungulpore, on the 17th Sept., when two miners were so severely burned,
that they died shortly afterwards.

Calcula.—A Calcular paper states the first explosion of fire-damp which has ever happened in an Indian coal mine, occurred in the mines of Messrs. Erakine and Co., at Sandahan, near Mungulpore, on the 17th Sept., when two miners were as overeity burned, that they died shortly afterwards.

Chadderfon, near Oldm.—As a bricklayer, named James Lysons, was at work in the colliery of William Jones and Co., Stock Field, Chadderton, crecting some brickwork mear the bottom of the shaft, a stone accidentally full from the side of the mine, and, slighting on his head, he was immediately deprived of existence.

Another Accident.—On Wednesday evening another of those fearful calamities to which the workmen in these mines are so constantly exposed, occurred at a colliery a few miles from Wigan, by an explosion of fire-damp. One man was reported to have been burnt to death, and several others also severely burnt; but our correspondent up to last night had not obtained the full particulars of the occurrence.

Pifell at Dysar!—Four Persons Immured.—An iron-stone pit, above Dysart, fell in on Monday in the forenous, killing or imprisoning two men, one of whom is Mr. M'Kenzie, the manager, and two boys. A great number of hands have been at work ever since, and we expect to ascertain their fate by to-morrow.—North British Mail.

Beru Colliery, Anglesey.—Aferies of accidents occurred here during last week: two men and a boy had taken their stations in the basket preparatory to being lowered to the working level—the shaft leading to which is 120 yards in depth: the descent had not well commenced when the basket, being inaccurally no out of three foil to the bottom of the hock? was miraculous—he having been seized by a man upon the bank, and supported until further aid could be obtained to effect his rescue from so fearful a position. The moscile find one of their of the calamity. The night preceding, a man, nared Williams was killed in the act of being lifted from a "sump" to the level; having impruedntly dispensed with the basket, House of Commons in Parliament assembled: The humble petition of the undersigned, residing in and near to Wigan, Lancashire, wives, children, relations, and friends of four men and two boys now in the Lower Patricroft, humbly showeth, that on Tuesday or Wednesday last, the water from the River Douglas, in Wigan, broke its banks, and over-flowed into the coal mine called Lower Patricroft, and where there ware then working John Rutter, the elder, John Rutter, the younger, Mathew Bates, Thomas Roch, John Shorry, and Michael Underwoot, collers. That these ske persons were not able to get out of the pit, in consequence of the water, and that they are still in the pit, but whether they are dead or alive your petitioners cannot tell. That the rush of water has boen so great that the engines of the coalmasters have not been able to keep down the water, and with the present engine power it must be many weeks, and perhaps months, before the water can be got out sufficiently to recover the six unfortunate persons who are now in the pit. Your petitioners humbly impiore your honourable House to send down some greater engine power, to raise out the water and to block out the river; for your petitioners will very ray," &c. Two colliers, named ingham and Bury, who are sufferers by the calamity, were the principal speacers at the meeting, and a series of temperate resolutions were drawn up, in addition to the above petition, and passet, it is and break up household establishments.

COUGHS, COLDS, ASTHMAR, AND AFFECTIONS OF THE CHEST OU HOLLOWAY'S PILLS.—If a few doses of this invaluable medicine be taken, and a Holloway's cintment rubbed into the throat and chest, night and morning, were is species of asthma may immediately be relieved, and speedily curred by this simple and influenza, or violent bad colds, can be generally curred in 48 hours by those n—Many persons, who, for several winters, have not dared to lie down in their bods to be choked with phiegm, have been radically curred by the use of Holloway's continuent.—Sold by all druggists, and at Frof. Holloway's establishment, 344, 88

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In their injurious tendency, when other alkalies, and even magnesia itself, had failed From Sir PHILIP CRAMPTON, Bart., Surgeon-General to the Army in Ireland "Dras Siz.,—There can be no doubt that magnesia may be administered more safely the form of a concentrated solution than in substance; for this, and many other reaso am of opinion that the fluid magnests is a ery estable addition to our Materia Medica PHILIP CRAMPTON."—Sir J. Clarke, Sir A. Cooper, Dr. Bright, and Messra, Guth and Herbert Mayo, of London, strongly recommend Murray's Fluid Magnesia, as being the safe and convenient than the solid, and free from the danger attending constant use of soda or potass.

Cetter from J. Murray, Esq., Lecturer on Chemistry, F.S.A., P.L.S.:—

"Dans Sin James,—Many years have elapsed since yen first showed me, in your laboratories, your saper-carbonate, or soluble magnesia, and demonstrated experimentally he remarkable quantity of pure magnesia held in transparent solution. It was than new ome, as it was to the chemical world, and I speak advisedly, as a practical chemist. It elieve its medical value cannot be too highly estimated; and I am satisfied that the public is under an infinite debt of gratitude to you for those invaluable researches, which are been the means of its introduction. Not to mention its more obvious healing virues. I believe it to be simest, if not altogether, a specific for lithic acid concretions, when sed in the pure condensed solution invanied by you.

"To Sir James Murray, Dublia.

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"To Sir J. Murray. Tuthill's Hotel, Dawson-street, Dublin, Feb. 19, 1889."

From Dr. KENNEDY, Marrey of the Lydne, in Hospital, Dublin :—

"TO SIT J. Murray.

"TO SIT J. Murray.

Tuthill's Hotel, Dawson-street, Dublin, Feb. 19, 1889."

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Royal Botanie - Inner Circle, Regent's park
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Syro-Egyptian - 71, Mortimes-street, Carendish
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Antiquaries - Somerset-house
My - Somerset-house
Westminster Medical - 17, Savillo-row
...

n Mining, & the Practical Applications of Scological Science.

PROF. ANSTED'S LECTURES, AT KING'S COLLEGE.
ECTURE X.—THE PRACTICAL APPLICATION OF GEOLOGICAL SCIENCE TO

Professor Assume said that, at the close of his last locture, he had left his auditory in imagination at the bottom of the shaft, and he would now continue his description from that point. And, first of all, the inquiry areas vary naturally, the shaft being completed and the coal found, why the miner did not present at the struct the mineral, cutting it away in any manner which might seem at the moment convenient, without regard to any plan or system? But it was, nevertheless, absolutely necessary to have a relation of the considered have not examine the mineral control of the considered have not examine account of the considered have not examine as the control of the considered have not examine as the control of the considered have not examine as the control of the considered have not examine as the control of the considered have not examine as the control of the imagination at the bottom of the shaft, and he would now comme on every embedded and the coal found, why the minor did not proceed at once to extract the minoral, cutting it sway in any mamor which might even at the amount of manufacturity the state of the process of the coal found, why the minor did not proceed at once to extract the minoral, cutting it sway in any mamor which might even at the plain—a well-considered plan—and equally accessary to althors to it most strictly, for several vary cogont reasons. It was also necessary to althors to it most strictly, for several vary cogont reasons. It was also necessary to make the coal existed, the plan which would be advisable and excellent in one district, might be extremely bupletia and largerous in another; and it was necessary, mode, to know exactly the circumstances affecting each particular case, and the local peculiarities of the stratus, before a plan could be here adopting a plan, depended in a secondary of the stratus, before a plan could be here adopting a plan, depended in a secondary of the stratus, and, obeying the law of gravitation; one of the under beds being removed, the super perion would sink down. Thus, if these reposed upon the coal a fee of locas of the super perion would sink down. Thus, if these exposed upon the coal a fee of locas of the super perion would sink down. Thus, if these exposed upon the coal a fee of locas of sand (which, it so happened, was very race) from the immediate owner a harder material above the sand, only a perion would come down. On the other hand, if, instead of sand (which, it so happened, was very race) from the immediate someta with the coof falling in. The problem, then, to a seven of the superson of hurdness or toughness weald be the quantities of coal extracted without the roof falling in. The problem, then, to see seven with the coal strate, the seven and the reason of the coal strate, the seven and the reason of the coal strate, the seven and the secondary of the seven and the seven and the seven and the s

but it was doubly important, when it was considered that proper ventilation was the best seventive in respect to those dreadful explosions occasioned by the generation and occasion of notice gases in the best of cost. If the roof fell in maxpectedly, and without a prevision for the consequences, the difficulties of ventilation were increased terriduled. A plan was, and there, occasionly to prevent, or provide for, such unnecessary difficulties. Coal, he had already informed thems, consisted chiefly of earbour; but it constained within its substance a great deal of carburetted hydrogen gas, which was present, in the whole mass of coal, in greater or less quantities. If coal were exposed to host, this gas was obtained. It was by exposing common one to beautiful the coal were antifected merely to pressure, without heat, this gas would also exude, and it also excepted by exposure to the common stimosphere; and thus gas as always explained. He was alleged were pure carbour, and the state of the coal were coals in which this gas would also exude, and it also except by exposure to the common stimosphere; and thus gas as always explained in the milest were pure carbour, and it coult not be extracted by pressure, but only by exposure to heat. All common total, however, contained earburetted hydrogen, in a condition which allowed of the extraction by heat, by pressure, or by exposure to the airmosphere at it coult mean, and then its certain proportions became extremely explosive. How necessary, then, was a process of ventilation, by which the occasions supply of atmospheric at it coult mean, and then its certain proportions became extremely explosive. How the supplies of the silicate enabled the minare to work without this danger of explosion at the slightest contact with fiame; and it belief independence was placed on these continuences must be made. There was, benefite, some risk of injury to health, for the earburetted hydrogen, though not exactly polanous when mixed with the atmospheric air, was certainly injurious t

THE SILENT FRIPND: a medical work, on the infirmities and easy of the genorative system, from excessive indispence, infection, and the another more of merentry, with remarks on marriage, and the means of obstating correction, disputationally the system of the genorative system, from excessive indispence, infection, and the another more of merentry, with remarks on marriage, and the means of obstating over the control of the system o

as much better—It constants at was divided into several portions, each of which, at was divided into several portions, each of which, as mine, returned to the upons shaft without passi. This was connected with wint was called power than the was connected with wint was called power of the po

permitted a very many there is a warm to the Newcastle pits, he (the professor) had passed through holes of this kind not is in, square. In some parts of the mine, the double worden doors were not sufficient, and then recourse was had to a complete stoppage, by means of a double wall of brick, 18 in, thick, with a considerable interval filled with loose brick-work. These were frequently many yards thick, so important was it sensetimes to cut off the communication. Whenever bricks were used in a partition, it was called as oppsing it by bratiles, which was most commonly used, was generally composed of boards and canvas, or canvas only.

Of the various modes of getting the coal, the one most comployed in the Newsastle colleries was that of blasting. The shaft having been carried below the seam, the work was carried on by running salleries, she coal being removed by a process called casefwhile, or by simple blasting. Blasting was rather a wasisful mode, as it powdered the coal way much; the use of the wedge was therefore uses, and most economical. A good deal, new-over, depended on the nature of the coal, and the thickness of the beds.

He had explained the way of working in galleries, and, by that process, at least, 60 for convers, or course, could not sfired to lose so large a portion of the seam, and it are coal-owners, of course, could not sfired to lose so large a portion of the seam, and it are got in the usual way, the roof being supported by strong timbers, which being after and a removed, the roof full in. If often happened, however, before this could be done, that the foliars, were partially forced up, the roof on the whole being counted the force being too soft to bear the crushing weight which pressed on them through the foliars, were partially forced up, the roof on the whole being isoured—this was called a creep. When, however, the roof was continued the floor hard, the received particular forced up, the roof on the whole being isoured—this was called a creep. When, however, the roof was cleaser the

On Eron-its Actibe and Enactibe States.

PART HI.—How is its Inactive State.—Continued from his week? Mining Journal.

All in the slightest degree acquainted with chemistry, are aware that iron is largely solvent in the mineral acids. When immersed in either nitric, sulphuric, or muriatic acid, a most energetic action at eace evenes, guess are abundantly evolved, while the iron itself is rapidly taken into solution. The action that takes place when the metal is immersed in the two first acids, is said to be due to its strong affinity for oxygen, while its action in muriatic acid is regarded as arising from the high affinity which iron, and object metals have for the chlorine which forms she basis of this acid.

According to generally received opiniona, the chemical action that takes place between iron and those acids is in no case precisely alike. With regard to nitric acid, the metal is said to decompose one aquivalent of acid, in order to obtain an equivalent of oxygen—the proof of which is, that nitrous acid is visibly given off is gaseous fames during the operation—this latter acid containing just an equivalent loss oxygen than nitric acid. While the control of the composition of the containing in the control of the control

mersed in either solution, it is dissolved, and a sait of iron is formed; but, inteed of hydrogem being evolved, we have copper or silver precipitated; these metals holding the same place in the acids that hydrogem did at the commencement.

All are aware that niric acid rapidly dissolves iron, and equally so that if precipitates copper or silver from their acid solutions. It has also been shown, at some length, that it largely combines with exygen during stocks atmospheric exposure. Indeed, these may be termed prominent laws in the nature of this metal—laws which we constantly see in active exertion; and I can readily imagine how exceedingly startled the first experimenter must have been, who saw, or first remarked, their apparent suspension; who discovered, in fact, that it was possible to immerse clean bright from, unabled by mechanical protection, into furire acid, without the slight section being visible; and not only each but, the still more startling such, that this actor immerse, which is all former cases did, it a same, destroy, now, on the contrave powered to receive the traverse remarkable. corrosity, the carbon preserves the acid from being decomposed to be seen that this occult property of preservation is possessed in nome other bodies. To demonstrate this by experiment, it will be few slips of clean from wire, 6 or 8 inches long, and one-eighth of course, there is no limit to the dimensions, only as respects on Let a glass also be precured, early filled with nitrio seld of the 1300 to 1350, and deposit a piece of platinum, or a gold coin, at t if one of the slipe of wire be taken and immersed in the acid, rawill easies, which, as soon as the wire comes into contact with ceases; nor is it a temporary cossation, for the platinum may be kept immersed in the seld (strong aquafortis), for any length of from the chance of corrosion than if in distilled water. But, or should a second slip of wire be brough: listo contact in the acid, and deed inactive, it will communicate its inactivity to it, or a dozen trought gradually and his succession. A wire thus treated may be trought gradually and in succession. A wire than treated may be removed into mother vessel of acid, and sill retain its inactivity; it may even be removed into a solution of intract of copper or silver, without any receipitation of those sential taking place. If washed in water, so as perfectly to remove the acid, it may be exposed to any amount of atmospheric moisture without truces of corrosion becoming visible. In short, we thus witches a total suspension of some of the most prominent laws in the nature of this need.

Next to the property of magnetism, as pre-eminently possessed by iron, I am not sware of any phenomena within the range of experimental philosophy more calculated to excite wonder, nor any which, in the first instance, must have excited greater kape of highly useful results arising therefrom in practice. Remarkable, however, as they may suppose in themselver, still prisons, somewhat acquainted with galvanism, would not feel inclined to view them as being much out of the common order of things. It might recur to them, that Sir H. Davy (by a train of as high inductive reasoning, allow me to add, as was ever brought to bear on a practical subject) showed how copper might be preserved from corrosion by placing small stude of zine in contact with it; but, this fact, atthough apparently analagous, has no right to be considered of the sense class as the preceding, as we shall see or further examination. In the case of the preservation of copper, the one motal is preserved at the expense of the other; that is, the stan study are gradually disolved by the action of as water, while the volute force thin generated diffuses to protecting influence over a surrounding portion of the copper; but this no longer exists when the since is either removed or dissolved.

[To be concluded to next weet? Mining Journal.]

WESTERN LITERARY INSTITUTION, LEIGESTER-SQUARE.

This institution, having been closed for a certain period, was re-opened on Monday evening. Mr. R. Hunt delivered an inaugural address, illustrative of the present state of science in Britain, on the occasion. Pervious, however, to Mr. Hunt's addressing the auditors, Mr. Mazoux (the secretary) stated, that he had re-opened the institution under an entirely new management, which he hoped would, by its efficacy, give general sufficient. Mr. Report then commenced his address, by alluding to the late discoveries made in astronomy, and that important one made by Prof. Faraday, the magnetication of light. Science (said Mr. Hunt), was in the present time cramped by a markemble value being

n it. Parties s choose rather to adapt what was found out to the mere of the world—this retarded science. If this had been the case we a piece of amber, when subjected to friction, would attract a fo-re had an electric telegraph. That we required amought us is lucate us in general observation, as well as in other points, tion, in which the address was delivered, was extremely well atte

SOCIETY OF ARTS.

Society of ARTS.

December 1.—William Wrow, Esq., R.A., in the chair.

Five specimens of painting on glass, by M. De Ron, of Munich, were exhibited. The Secretary stated, that the colours used by M. De Ron, of Munich, were exhibited. The Secretary stated, that the colours used by M. De Ron are peculiar, and the method of preparing them known only to himself. The colours used are glassed officent degrees of hardness, care being taken, in using them, never to put a hardself entire colour—Also, he uses both sides of the glass—this enables hilt to obtain clearness and deciston! Also, he uses both sides of the glass—this enables hilt to obtain clearness and deciston! Also, he uses both sides of the glass—this enables hilt to obtain clearness and deciston! Also, he uses both sides of the glass—this enables hilt to obtain clearness and deciston! Also, he uses both sides of the glass—this enables hilt to obtain clearness and deciston! Also, he uses the clearness and deciston of the c

ON STEAM-BOAT EXPLOSIONS.

and paper, by Gaung attenues to the three and which he presented for communication to the society at an early period.—The discussion on this paper was posponed till the next meeting, and the Streamark announced, that additional specimens and rubbings would then be exhibited.

CON STEAM-BOAT EXPLOSIONS.

**Totale Br. Hor. Loap Demands. Joint Conf. Paper and the Streamark of the William of Control of C

must remove the top of the sceam casing; he must then unscrow the Saiter's spring balances; and, finally, if Soch weighted levers he required to be lifted, cut away, by maken any and challength of such stars acasing—an operation that would occupy some minutes; whilst, if the vossel had been fitted, as others on the river, which are working to only one-fifth of the pressure exerted in those vessels, it would only have been the work of an instant. You will, therefore, my lord, perceive that the engineer has been found guilty of omitting to perform a duty which it was totally out of his power, through the absence of the necessary safe guards, to accomplish.

In my previous letter, I omitted a slight aketch, intended to be elucidatory of the actual state of the iron at the point where the rupture commenced. "It will be in the recollection of all that, in the widence given by Mr. Joyce before the corner, the following slatement was made:—"The bolian of the Ant and Bet were made by Messre, Horton; their front plates sere only five-eighths, those of the Crickel Reco-quarter; and, I think, the armagement of the says the aemon of the root plates;—

Fig. 7.

Fig. 7 represents the actual thickness of those plates:—

Fig. 7.

Fig. 7 represents the actual thickness of plates at the of the Act and Bet.

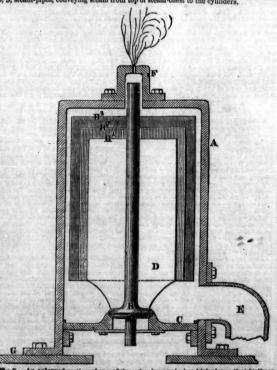
A. the § plate of Ant and Bet between rapidly than at any other than the state of the Act and Bet.

A. the fig that of Ant and Bet between rapidly than at any other than the state of the Act and Bet.

Fig. 7 represents the actual thickness of plates at the pand to the crickel and actual thickness of plates at the pand to the crickel and actual thickness of plates at the pand to the pand bottom of this § strip, which is not being actually the plate, of the Crickel actual thickness of plates at the pand to the pand bottom of this of the Crickel actual thickness of the front plate, C, of the Crickel actual thickness of the front plate, C, of the Crickel actual thickness of the front plate, C, of the Crickel actual the plate, whi

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Fig. 8—Is a cross section of a river steam-beat, of the usual construction, at the front of the boller, showing the means adopted for safety to enable the ongineer to turn of the steam, when stopping at the piers, the work of an instant—such means not being adopted in either Cricket, Ast, or Bes steamers. A, A, valve-boxes, shown in section at \$6,90. E, E, waste steam-pipes, of same area as the valve, to coursy the surplus steam under water. F, auxiliary steam-pipe, which conveys the steam direct from the bolier, also under water. G, top of steam-chest of boiler. H, steam casing, surrounding such steam chest. J, an oblong hollow tube, communicating at its lower ends with the water, and at its upper end with the steam in the boiler; to this tube is affixed the gauge-cocks, and the water-gauge as shown. J, front part of smoke-box, which its amount of clean the tubes; this part is constructed to allow of the passage of air in at its lower to clean the tubes; this part is constructed to allow of the passage of air in at its lower to clean the stable; the part is constructed to allow of the passage of air in at its lower to clean the stable of the constructed to allow of the passage of air in a time lower to clean the stable part and out at the top, to keep the engine-room cool. K, K, furnace doors, K, K, and close the sah-pid doors, L, L, M, M, coal-boxes on each side of boiler. N, N, doors in chanical impurities which settle to the bottom of boiler, for blowing out the mechanical impurities which settle to the bottom of the boiler. P, F, funnel, situated immediately at back of valve-boxes, A, A. W, L, water-line of vessel. Q, much-hole door. S, S, steam-pipes, conveying steam from top of steam-chest to the cylinders.



valve-spindle, which is maintained in a vertical position by the lower guide immediate under the valve scating, and the upper guide, or bonnest, F., which is perforated wift small hole, that tells when steams is blowing. H. I, shows the size of weight semployed the Citiese, and other 24-horse power nominal bollers. H. 2, the size used in the Watern and Woolwich steam-boats of 32 nominal horses-power. H. 3, the size used in the Watern and Woolwich steam-boats of 32 nominal horses-power of the same nominal horse-power, waste steam-pipe, isading under water—such pipe having a small hole drilled in it is it engine-room, to prevent the formation of a vacuum in the pipe. G. top of steam cash This is the form of safety-valve now becoming general, which, had it been employed the present case, would have rendered the valve-tying system of this company's super tendent, Clark, and others, inoperative.

MMPROVEMENTS IN RAILWAY CARRIAGE WHEELS.

[Specification of patent granted to Robert Heath, gent., of Manchester, in the county of Lancaster, for certain improvements in wheels, to be used upon certain rail and other roads; which improvements are also applicable to mill gearing and other similar purposes.]—Necton's Journal.

(Specification of patent granted to Robert Heath, gent., of Manchester, in the county of Lancaster, for certain improvements in wheels, to be used upon certain rail and other roads; which improvements are also applicable to mill gearing and other similar purposes.]—**Restow's Journal.**

This invention, which is applicable to carriage wheels, and also to mill gearing, consists in the peculiar formation of the wheels, in connection with the particular relative proportions of the different parts of the same, whereby the contraction consequent upon the cooling of the metal in casting is caused (instead of weakening the wheel), to bind the whole together into one solid mass. The wheels are in the first place formed entirely of cast-iron; and, although any kind of metal may be used, the patentee prefers to make them of what is called "cold-blast" metal, as being stronger and tougher than any other. The proportions which the patentee employs, and which be claims as his invention, are as follows:—The outer rin and the boss of the wheel are three times the strength of the arms, or thereabouts. Hitherto, cast-iron wheels have been liable to break, chiefly from want of a sufficiency of metal in the rim; because, when the rim is not sufficiently strong, it cools first during the process of casting, and the contraction of the rim ceases, while the contraction of the arms and boss are still going on. By making the rim three-times the strength of the arms, or thereabouts, the contraction of the rim is greater, and lasts longer than that of the arms, and thus the arms and boss of the wheel are bound firmly together by the contraction of the rim. This perfect contraction of the whole causes the rim to assume a correct circular form, so as to require no subsequent turning prior to use. The arms may be made either flat, round, or of any other shape; but they must retain the same sectional thickness at the rim as at the boss, and without any flanges or ribs, so that the arms shall not contract more or sooner at one place than at

ACCIDENTS.

ACCIDENTS,

Cyfarthfa Stone Quarry.—T. Hickey was killed here by a fall of rubbish.

Glyndyry's Pit.—J. Harris was killed on the spot by the fall of a stone, weighing about 6 tons, and J. Evans so much injured, that life is despaired of.

Banker's-hill Colliery.—A lamentable accident occurred here on Saturday last—five men (named J. Taylor, J. Parker, J. Walker, E. Whistance, and A. Ball) were being let down the shaft in a skip, while the water bucket was ascending the other; saddenly the engine was reversed, when the skip was thrown with great force over the pulley; Whistance and Ball fell down the shaft and were killed on the spot—the other three saved themselves by clinging to the pli frame. Dainty, the engineer, immediately abscended, but surrendered to the coroner's inquest, when the jury found him guilty of "Manalaughter," and he was committed to take his trial at the assizes.

Spilal Tongues Colliery, Nescoasile.—W. Watson was killed by a fall of stone from the roof;

spital Tongues Colliery, Neecastle.—W. Watson was kiⁿed by a fall of stone from the roof,
Calculta.—A Calcutta paper states the first explosion of fire-damp which has ever hapened in an Indian coal mine, occurred in the mines of Messrs. Erskine and Co., at Saadianan, near Mungulpore, on the 17th Sept., when two miners were so severely burned,
hat they died shortly afterwards.

that they died shortly afterwards.

Chadderion, near Oldham.—As a bricklayer, named James Lysons, was at work in the colliery of William Jones and Co., Stock Field, Chadderion, erecting some brickwork sear the bottom of the shaft, a stone accidentally fell from the side of the mine, and, alighting on his head, he was immediately deprived of existence.

Another : ccident.—On Wednesday evening another of those fearful calamities to which the workmen in these mines are so constantly exposed, occurred at a colliery a few miles from Wigan, by an explosion of fire-damp. One man was reported to have been burnt to death, and several others also severely burnt; but our correspondent up to last night had not obtained the full particulars of the occurrence.

Pitfull at Dynart—Frur Persons Immured.—An iron-stone pit, above Dysart, fell in on Monday in the forenous, killing or imprisoning two men, one of whom is Mr. M'Kensie, the manager, and two boys. A great number of hands have been at work ever since, and we expect to ascertain their fate by to-morrow.—North British Mail.

Bere Colliery, Anglessy.—Asperise of accidents occurred here during last week: two men

Monday in the forence, killing or imprisoning two men, one of whom is Mr. M'Kenzie, the manager, and two boys. A great number of hands have been at work ever since, and we expect to ascertain their fate by to-morrow.—North British Mail.

Bere Colliery, Anglesey.—Abries of accidents occurred here during last week: two men and a boy had taken their stations in the basket preparatory to being lowered to the working level—the shaft leading to which is 120 yards in depth: the descent had not well commenced when the basket, being insecurely placed on the hook, which is connected by a rope with the engine, lost its hold, and two out of three fell to the bottsm of the shaft, and were dashed to piecess. The preservation of the third (who caught hold by the hook) was miraculous—he having been seized by a man upon the bank, and supported unit'ntriher aid could be obtained to effect his rescuen from so fearful a position. The mischief did not end here. The guiding rods which keep the baskets apart were thrown out of gear by the accident just related, and the efforts made to disentangle them liber rated a portion of the basket which had got jammed between them, and this striking aminer, named Parry, who was at the bottom of the shaft, on the nape of the neck, kills in the striking at the striking at the striking than the striking that the striking than the striking that the striking than the striking than the striking that the striking that the striking than the striking that the striking than the striking that residing in and near to Wigan, Lancashire, wives, ch men and two boys now in the Lower Patricroft, hu Wednesday last, the water from the River Douglas, it flowed into the coal mine called Lower Patricroft, Lohn Rutter, the cident, John Rutter, the younger, John Rutter, the younger, John Rutter, the younger, Sherry, and Michael Underwood, colliers. That the out of the pit, in consequence of the water, and that they are dead or alive your petitioners cannot tall, great that the engines of the coalimasters have not be with the present engine power it must be many week water can be got out sufficiently to recover the six in the pit. Your petitioners lancable (control of the present engine of the pre

COUGHS, COLDS, ASTHMAB, AND AFFECTIONS OF TARE
HOLLOWAY'S PILLS.—If a few doses of this invaluable medicine be
Holloway's sintment reabed into the throat and cheat, night and me
spacies of asthma may immediately be relieved, and speculy cured
and influence, or violent bad coids, can be generally cured in 48 ho
—Many persons, who, for several winters, have not dared to lie dow
to be choked with phiscarm, have been medically cured by the use o

proceedings of Public Companies.

MBETINGS DURING THE ENSUING WASK.

on Mining Cor r Mining Com

Alliance Gas Company—offices, at Two.

Alliance Gas Company—offices, at Two.

Large Steam-Packet Company—at the mine.

Eagle Steam-Packet Company—London Coffee-house, at Six.

Pager's Sound Agricultural Company—offices, at Two.

Oriental Bank Company—offices, at Twelve.

Bank of Australiasia—offices, at One.

Great Luxembourg Company—London Tavern, at One.

Great Luxembourg Companies are inserted among the Mining Intelligence of Mining Companies are inserted among the Mining Intelligence.

PENINSULAR AND ORIENTAL STEAM NAVIGATION COMPANY. The seventh annual meeting of proprietors was held at the chief office, St. Mary Axe, 1 Wednesday, December 8. — Sir John Pune in the chair (Sir J. Camphell, late deputy-

SET J. PRIME, in taking the chair, expressed his regree at the refusal of Sir J. Campbell o act, but promised to fill his place to the best of his ability.—Sir J. Campus attack, has before the close of the proceedings he would give his reasons for having declined he chair.

The SECRETARY (C. W. Howell, Esq.) proceeded to read the 14th half-yearly report

Six J. Fass, in whiting the chair, supressed this regret at the refusal of Six J. Campbell that before the clean of the proceedings he would give the remotes for having declined the chair.

The Sexaryaxy (C. W. Howell, Eu.) proceeded to read the 14th hali-gardy reposit, which stated that—

At the lash half-gardy meeting it was stated that the directors at that time contempts which stated that—

At the lash half-gardy meeting it was stated that the directors at that time contempts of 500,000, which, under the canciton of the Lords of the Towary, the projection are now authorised to raise, should a special general meeting, called for that purpose, determine in favour of the measure. It will scarcely be necessary to that the other contempts in the contempts of the

when realised.

The terms of the company's deed, requiring that two of the directors should go out of office every alternate year, as well as the two auditors, the proprietors are called upon to fill up the vacancies thus occasioned. The outgoing directors by ballot (Sir John Pirie, Bart., and Capt. Richard Bourne, R.N.), and the auditors (the Hout. 7. L. Meiville, and Jameson Hunter, Eag.), also solicit the houtour of being re-electic; and as, according to the terms of the deed, they are immediately re-eligible, the court cordially recommend these confidence to your choice.

uniforms to your choice.

Major Straitu moved, and another shareholder seconded, the motion, that the reports a dopted.—Gen. Barcos was sorry that he could not concur in the adoption of the reort. He must say that a more meagre and unsatisfactory document it had never beer is lot to listen to. In the first place, he must remark that, attended to former reports here had always been accounts, signed by the chairman and managing directors, of the ferent resears in the service of the company, where employed, and many other necessary striculars. There was nothing of that in the present document. He would here renest that the 93d article of the Deed of Sertlement be read to the court. (The article hich was then read, was, in substance, that the directors should prepare for each general sending reports of the receipts and dishumements of the company). He asserted that a reserved did not contain this information.

meeting reports of the receipts and disbursaments of the company for the 12 months previous, together with the profits and general condition of the company). He asserted that the report did set contain this information.

The Casanway said, that the information required was in another document, which he was ready to hand to the gailant propietor.

Gen. Bascos resumed. He saw in the report allusion to the formation of branch lines in India. He believed it was the first the proprietors had heard of the matter. He should like to know, it is had been accertained whether these branch lines were likely to be remunerative. He would appear that four branches were contemplated, requiring, at least, 100,004, additional capitol. They were not informed where these new lines would go to, being merely look that it to object was to enable the company to carry passengers at a moderate rate. He appeared to him that more information was necessary on this point. If they were to depend on the European passengers travelling constraine (in India), the profit would be small, and he did not know whether native passengers fraith was contemplated. A smart traits in optium might, indeed, see carried on, but the report gave no information. The report tien stated, that the pessengers frave had been reduced to per cent. He while to know whether this reduction affected all passengers, or merely cade it? (Hear, bear, and interruption; soveral shareholders expressed their wishes that the speaker would condisen his observations as much as possible.) He wished also for faller informations under the heads postage, and care ing the mail. He next came to the profit and loss account, to the credit of which he found the sum of 115,966. He saw that the directions proposed out of this to divide to per cent., and to appropriate? per cent. to the depreciation fund, where it was applied also for faller informations under the heads postage, and care ing the same of 115,000. He wished also for faller informations and or the heads postage, and care ing the sa ad implier)
success: Is the gallant proprietor going to make any motion? (Hear, her:)

on be published, as were the Royal West India Mail, and other companies. The Characas said, that the accounts were open to the impaction of the shareholders, it is was the what of the court that they should be published, the directors had no objection. (No, no.)—Sir John Characas and, that the course now adopted was similar to hat taken at varner annual meetings. The directors did not publish the accounts, lest neit so doing might be prejudicial to the interests of the shareholders, but they were open the inspection of the proprietors. (Hear, hear.)

Mr. Caracas (one of the proprietors of the shareholders, but they were unanimous

to the inspection of the proprietors. (Hear, hear.)

Mr. Carriero, one of the managing directors) said, that the beard were unmind in rejoicing that all these questions had been put, as they were desirous of affording proprietors on all occasions every information in their power. The first point on with information had been called for was that concerning the branch lines.—Mr. Darrier Wibranch lines? The proprietors have never been consulted respecting them:

Mr. Carriero said, that if the directors had thought the giving of information on point would be advantageous to the company, it would have been given; but there we questions connected with these lines which they did not think it politic to make pub that we were competitors, and, therefore, it had not been thought expecting them are the branch lines. He could only say, that the branch lines were contamplated we arise of feeding the trunk lines, such as Southampton and Alexandria, Sucz and Cutta, &c. With respect to the reduction in fares, he had to state that it affected not or cadets, but all other passengers. The reduction had given great satisfaction, and wo cadets, but all other passengers. The reduction had given great satisfaction, and we determine the could not provide the company. (Hear Mr. Darry: What is the charge for cadets—Mr. Carrieros; 1084, 16 was formed 1404.—Mr. Darry: What is the charge for cadets—Mr. Carrieros; 1084, 16 was formed 1404.—Mr. Darry: All other passengers and the company. (Hear Mr. Carrieros; 1084, 16 was formed the company.)

outs, Se. With respect to the reduction in these, he hadro white that it affected not only counts, Se. With respect to the reduction in these, he hadro white that it affected not only be extended, if it could be done consistently with the interests of the company. (Histr.) Mr. Darry; What is the charge for cuders — Mr. Carery; 1964, if was formerly 1604.—Mr. Darry; What is the charge for cuders — Mr. Carery; 1964, if was formerly 1604.—Mr. Darry; What is the color officer whose health required a change of climata. The mean price of the color of

· LONDONDERRY AND ENNISKILLEN RAILWAY.

A special meeting of shareholders was held on Thursday, the 9th inst., at the offices. Church-passage, Guildhall, to receive the report of a cosmalitee, appointed on the 30th October last, for examining into certain charges brought by the local directors against their London colleagues, and into other matters.—J. G. Fattin, Esq., in the chair.—The report set forth that part of the works had been executed at an exortisant price, and recommended that Mr. Leishman's claim of 26,000t. should be resisted by all legal means. The report set forth that part of the works had the coasterized at the contribution of the cost of Parliamentary proceedings, and the construction of the line from Londondary to Strabure, amounted to 195,489t, the receipts from calls, to 144,475t.—leaving a bandward of 55,048t, to be provided for. This could only be done by entorcing the calls in anaxy, as the directors had no power to make fartier calls without the calls in anaxy, as the directors had no power to make fartier calls without the calls in anaxy, as the directors had no power to make fartier calls without the calls for anaxy, as the directors had no power to make fartier calls without the calls in anaxy, as the directors had no power to make fartier calls without the calls in anaxy, as the directors had no power to make fartier calls without the calls for anaxy, as the directors had no power to make fartier calls without the calls in anaxy, as the directors had no power to make fartier calls without the calls in anaxy, as the directors allowance and the calls of the calls in anaxy, as the directors in the calls in anaxy, and the contribution of the calls of the c

LOUVAIN A LA SAMBRE RAILWAY.

A meeting of shareholders was held at the London Tavern, on Thursday, the 9th instMr. Beat in the chair.—This meeting was called in consequence of a desire on the part of it
shareholders to obtain information respecting a report which had been made to the
of the present state and future prospects of the undertaking.—It appeared, from it
chairman's satement, that there were only two directors in London, and that they coul
not convess a meeting, three being necessary for that purpose. They pledged themselve
however, that a meeting of the shareholders should be called as soon as certain negocitions pending between the company and the Beigian Government were satisfactorily a

however, that a meeting of the shareholders should be called as soon as certain negociations pending between the company and the Belgian Government were satisfactorily arranged, and that a shatement of the whole affairs of the company should be laid before that meeting. They also pledged themselves that the calling of this meeting should not be prolonged beyond the last February next; that time for the payment of the call at present made should be prolonged to one month subsequent to such meeting; and that this arrangement should in no way interfere with the payment of an interest due on the 7th of January next, for which they believed they would have sufficient funds in hand. The Charmana said, list these concessions on the part of the directors appeared to him to be so far satisfactory, and it was to be regrutted that they had not been made three weeks ago. It now remained for the meeting to determine whether they should adjourn till after the meeting in question was held, or whether they would require Mr. Abraham to read the report which he had drawn up, in consequence of the resolution of the shareholders at the previous meeting.

After some discussion, it was carried, on the motion of Dr. Worthington, that the report should be read. This document set forth that the committee, having gone over the whole line, were so opinion that the directors had not evinced sufficient foresight and pradence in conducting the company's affairs; that it was necessary to reorganise the whole system of firmagement; and that a competent person should be immediately despatched to Belgium, to superintend the operations which the present position of the company residence docessary. It further stated that the only portion of the line (as a short section) which could be finished and worked with a reasonable expectation of an adequate return on the cost of construction (tile other portions being essentially through lines), was that between the left bank of the Sambre and Hansart, and from thence to Fleurius.

—Mr. Amas and dissected

COALBROOK DALE IRON-WORKS.—We are sorry to learn, that the colliers these works are to be put on half-work next week; the ironstone-pits, we enformed, are to continue in full operation, in consequence of the amali took of iron mine now on surface.

Mining Correspondence.

ENGLISH MINES.

ENGLISH MINES.

BARRISTOWN.—The lode in the 18 fm. level end, west of Slob shaft, is at present 18 in. wide, 10 in. of which is well mixed with ore, and worth from 94. to 10% per fm., taking a perpendicular course down; the stopes in back and bottom, behind this end, are worth about 8% per fm. The back over Doyley's stopes, in the 18 fm. level, is worth from 18%. to 20%, p. fm. We have been clearing deads in the 28 fm. level—consequently, have done but little to the lode. We have suspended the 12 fm. level end west, and commenced diving; east from Slob shaft, to hole the ground, which can now be accomplished for less than half the price of driving; west in this end we have a lode 3 ft. wide, mixed with lead, worth about 6%, per fm.; in the 12 fm. level and, west of Slob shaft, the lode is also large, 2 ft. wide, and worth about 6% to 2% per fm. The pitches generally through the mine look as hade better than for the last month. The lode in adit end east is large and poor; it has changed its character from a white iron to blende.—Dec. 3.

BEDFORD UNITED.—At Wheal Marquis, we are still driving in the cross-

a white iron to blende.—Dec. 3.

BEDFORD UNITED.—At Wheal Marquis, we are still driving in the crosscourse in the 90 fm. level east; the lode in this level west, on the south lode,
is 2ft. wide, composed of ore and spar, worth 20l. per fm.; this level west, on
the north lode, is suspended. The lode in the 80 fm. level east is 2 ft. wide,
not very productive, but wears a very kindly appearance; and in Hooper's
winze, in this level, the lode continues poor. In the 70 fm. level east the lode
is 2 ft. wide, composed of spar, with a small proportion of ore; thereis no alteration worth noticing in Harvey's winze, in this level. The lode in the 25 fm.
level, east of the south engine-shaft, is 18 in. wide, composed of spar, intermixed with grey ore; and in the adit level, on this lode, the lode is 15 in. wide,
poor at present.—Dec. 7.

poor at present.—Dec. 7.

COATLITHE HILLS.—In the beginning of this week the men employed in the level, west from A shaft, cut a communication to the rise in the back of the horse level. The communication having drained the level east from the shaft (on the course of the vein), I intend driving it east with all possible speed.

sin the level, west from A shaft, cut a communication to the rise in the back of the horse level. The communication having drained the level seat from the shaft (on the course of the vein), I intend driving; it east with all possible speed.

COOK'S KITCHEN.—In the 190 fm. level, west of the engine-shaft, the part of the lode which we are carrying, is 7f. wide, and producing a little, it. In the 180 fm. level west the part of the lode which we are carrying is 4½ feet wide, and worth about 20L per fm.; in the 180 fm. level east the part of the lode on which we are driving is 4f. wide, and worth about 6L per fm. In the winze, sinking under the 170 fm. level east, the part of the lode which we are carrying is 4½ ft. wide, and worth about 7L per fm. In the 180 fm. level driving north, for the purpose of cutting the north part of the lode, the change in the ground appears to indicate that the part we are in search of is not far off. In the Druid lode, we are in course of clearing the western adit shaft, in which we have got down about 20 fms., and have about 18 fms. more to clear to the adit. The tribute department is much the same as for some time past.—Dec. 6.

COOMBE VALLEY QUARRIES.—Our works have this last week been visited by several gentlemen, largely interested in their prosecution, they being also very extensive Cornish mining proprietors; it gives me great pleasure to inform you, their opinion is perfectly unanimous—viz.: that in a very brief period those undertakings will form one of the most pesitive and certain spaculations now at work in North Cornwall. They have each written to the committee a private report—an extract from which, with their permission, I will forward you in another week. I herewith sond you a specimen of slate, taken up in the presence of the above gentlemen, which will be found and in quality of most of the best Welsh quarries; also another specimen taken from the same rock 17 years ago, and which has been exposed to the influence of the atmosphere, and in a wet situation ever since

good work for silver-lead.—Dec. 3.

DARTMOOR CONSOLS.—We have holed Henry's shaft to the shallow alit, which is 15 fins, from surface, and the men are now employed in cutting a plat, &c., so as to commence again under this level; the ground is favourable for sinking, being of a soft decomposed granite. We are also getting on very progressively with the wheel-pit, but the weather has been against us the last few days; notwithstanding, the masons have stood its severity. The men are also engaged in fixing the flat or horizontal rods, pulleys, &c., as well as erecting a whim at Henry's shaft.—Dec. 9.

are also engaged in fixing the flat or horizontal rods, pulleys, &c., as well as orecting a whim at Henry's shaft.—Dec. 9.

DEAN PRIOR AND BUCKFASTLEIGH.—We have commenced sinking the engine-shaft, below the 24 fm. lovel—price for sinking, 12% per fm., by ninemen, stinted 4 fms., or until the last Saturday in this month, that being the monthly setting-day at this mine. In the 20, or bottom level, driving west the lode has a very promising appearance, about 2 ft. wide, composed of capel, prian, and spar; in this level the lode generally has been large and regular, varying in size from 2 ft. to 8 ft. wide, and been drivan on to a great extent, and in driving has produced fine specimens of horsefissh and yellow eres, of excellent quality, which are good indications, and not only so, but shows the strength of the lode in going down; and in the deeper levels I anticipate the most favourable results. In the stopes, in the back of the 10 fm. level, the lode is about 7 ft. wide, composed of capel, mundle, spar, and iron; the orey part of the lode is about 12 in. big, saving work. The carpenters are engaged making and preparing the launders to carry the water over the 24-ft. water-wheel; while in the past week they have been engaged about 6 ft. in greatly in favour of the future proceedings, as to changing boxes, and dropping the bottom lift of pumps, &c.—Dec. 7.

DEVON AND COURTENAY CONSOLS.—The lode in our deep adit level is 18 in. wide—6 in. of which is producing good work for lead ore; I think there is every reason to expect an early improvement in this level; the ground in our engine-shaft continues favourable for sinking; and, I think, by another week, we shall be deep enough, except sinking a little for a fork, to commence driving to intersect the lode; the pitches, on the north lode, continue to produce some good work; the floors are nearly completed, and we shall commence dressing our lead ores in a few days.—Dec. 7.

EAST CROWNDALE.—The ground in our engine-shaft is rather improved for sinking, having exclear

duce some good work; the floors are nearly completed, and we shall commence dressing our lead ores in a few days.—Dec. 7.

EAST CROWNDALE.—The ground in our engine-shaft is rather improved for sinking, having got clear of the range of spar which has retarded our operations for several fins.; it is now down 48 fins. 1ft. The lone in the 47 fm, level cast is still poor, but is, from appearances, very likely to make a bunch of ore in a few feet driving, the lode being composed of the same kind of stone as when the shaft, went through it, only not so much ore; it is upwards of 2 ft. wide, composed of spar, capel, peach, mundic, and good stones of ore. The lode in the shaft, sinking on the course of the north lode, at Rix Hill, is still disordered with floors of killas; it is about 5 ft. wide, composed of killas, peach, mundic, and stones of tin at times; this shaft is down 5 fm. 3 ft. below the adit level. The lode in the adit level west, at Rix Hill, continues of a most kindly description; it is about 2½ ft. wide, composed of capel, peach, mundic, spar, and stones of tin—in fact, the appearances of the lode in this level fully warrant the opinion that a course of tin is near at hand. In cross-cutting south we have cut another lode, the appearance of which we cannot as yet give you any idea, only having just, cut the north capels; I hope to give you a good account of this place in my next report.—Dec. 4.

GALLOWAY.—By costeaning on the north and south lode we have traced this lode about 60 fms. south from the old workings towards the east and west lode, at which point the lode is 7 ft. wide, chiefly composed of a fine gossan, spar, prian, and flookan. On the east and west lode we neve cutting an open cast on the back of this lode, with a view to unwater the point of intersection, where we propetie to sink a shaft; we expect, in course of another fortuight, to arrive at the point of intersection.—Dec. 4.

GREAT HEWAS CONSOLS.—During the past month every effort has

where we propose to sink a shaft; we expect, in course of another fortnight, to arrive at the point of intersectique.—Dec. 4.

GREAT HEWAS CONSOLS.—During the past month every effort has been made on our part for the development of the mine, so as to aid this meeting in its decision as to unappropriated shares. The adit, between eastern and Carthew's shafts, has been cleared out, for the purpose of ventilation, and in order to make the bottom of the adit available for pitches. In one instance we have found the lode 5 fars, under adit (as has been aiready noticed in my letter to the purser), where the lode is of great prémise, and is worth, at least, 20, per ton, and is in whole unexplored ground. Another whate is in course of clearing in the bottom of the adit, mine 46 fms, west of the above, and we expect to see the lode here also in a few days. Carthew's shaft is in course of sinking, and is progressing favourably, the object of which has been repeatedly whited. We have succeeded also in clearing Northy's shaft to the 36, and shall be able to commence cross-cutting therefrom to intersect Hewas lade, which is supposed to be 17 fms. off (and of which 13 fms. were driven by the old adventurers), earlier ham was expected, and, should the result be favourable, as is generally anticipated, it will certainly give our adventure a new feature. The 35 fm. level, between eastern and Northy's shaft, is in bad condition in many places, but we hope to clear and secure it before the next account, forming a communication between those two shafts, and opening up a great each of the international defina, high, and 76 fms. long, in all 2800 fms. i and will all work at from 10s. to 12s. in the 11. Sheet our last meeting, the reported 36, at Stanley's, has turned out to be a 50 milevel, which induced us to continue pumping the water out, so as to drain it. The development of this level is highly satisfactory, opening up inunded of the sever propect of doing what was then anticipated, having already set to 58, but, as some have no

risi int sur not tion ing

sear of kinely tinstuit is new being drawn to the surface, and therefore we are actively sugged in creeting stamping-mills. As to the fore being, we have suspended driving flere for the present, whilst we are raising the cross 22, 3d. per ton from the backs, set we cargoes will be shipped for Wates during the month.—Nov. 24.

GREAT MICHELL CONSOLS.—The lode in the sump winze is 5½ ft. wide, containing numdle, apar, and ore, producing some good saving work, and is, in its general character, exceedingly promising. In the 55 fm. level, west of the sump winze, the part of the lode being carried is 4ft. wide, stall opening good tribute ground; the pitch in the back of this level, now being worked at 3s. 5d. in the 1ft., is yielding good returns.—Dec. 7.

HOLMBUSH.—The ground in the 182 fm level, south of the diagonal shaft, is still favourable, but, as yet, we have intersected no branch. The ground in the 120 fm. level, wast of the great cross-course, and south-west of the slide, is favourable for driving; in the 120 cross-cut, south-east of Hitchina's shaft, the ground being so very hard, we thought best for the time to suspend is; the lode in the 120 fm. level, south of the old level and cast of cross-course, we have set to stope at 2£. 10a, por fm.—it will produce 2½ tons of ora per fm. The 110 fm. level south, on the lead lode, is for the present suspended, and the men set to rise above the back of the level, both for ventilation and laying open tribute ground, where the rise will be commenced—the lode is worth 5½ per fm.

The lode in the 100 fm. level south is 2 ft. wide, composed of quartz, blende, and stones of lead, saving work; we have three tribute pstches in the hack of this level, wrought at 12a, 8a, and 5a. in the 12. on the value of the lead. The lode in the 90 fm. level south is 2 ft. wide, composed of flookan and apots of lead.—Dec. 7.

KIRKCUDBRIGHTSHIRE.—The lode in the 50 fm. level end west is 3½ ft.

spots of lead.—Dec. 7.

KIRKCUDBRIGHTSHIRE.—The lode in the 50 fm. level end west is 34 ft. to 4 ft. wide, producing about 4 ton of lead per fm. The lode in the 40 fathom end west is 4 ft. wide, producing 4 ton of lead per fm; the winze sinking under this level continues to yield 1 ton of lead per fm. The lode in the 30 fm, end west is 4 feet wide, producing stones of lead, with indications of an increase. The lode in the 20 fm. end is 9ft. wide, and losking much the same as last reported. The lode in Keith's shaft is 3 ft. wide, and is similar in appearance to that of the 20 end, very kindly, but without lead. We have 34 men on tribute, who are working with great spirit, and I believe the greater part of them are getting fair wages.—Dec. 4.

LEWIS —The lode in the acceptable 5 in 61 ft.

that of the 20 end, very kindly, but without lead. We nave a men on tribute, who are working with great spirit, and I believe the greater part of them are getting fair wages.—Dec. 4.

LEWIS.—The lode in the engine-shaft is 2½ ft. wide, unproductive at present. I am glad to inform you, that the lode in the 60 east, on south branch, is 18 in. wide, worth 20L per fm., and very kindly; the lode in the 60 west is much the same as when last reported; the above-mentioned ends we must suspend, in order to put the men to rise against the wirze sinking below the 50 fn. level, for a better ventilation; the lode in the 60, east of tin shaft, is 2½ ft. wide, worth 56, per fm., and very promising. The lode in the 50 east, on south branch, is 1 ft. wide, worth 8L per fm. very much improved since last report.

POLSATTH CONSOLS.—I visited Polsaith Consols on the 18th Nov., at the request of one of the shareholders; I confined myself (dime being short) to an examination of the north, or tinner's hill, part of the sett, it being in that part of the sett that the new discoveries have been made. My opinion, formed on an accurate examination of the character of the lode, is as follows:—The lode (which is, on an average, 5 ft. wide) is strong and well defined, composed of gossan, with fine stones of lead, interspersed with stones of carbonate of lead and greens—altogether strongly resembling the lode at Trelawney and Wheal Mary Ann. With respect to the work done, I am of opinion that the shafts are sinking in positions likely to prove the mine satisfactorily, both in the walley and in the hills. From what I have seen of the lode, I am inclined to think, it will prove exceedingly productive in the valley, which is full 150 fm. on the course of the lode. On the whole, I can give it as my candid opinion, that the mine promises to be a very profitable speculation. I observed, that there have been erected a large smith's shop, powder and timber houses, and that they are preparing to erect an engine-house, the engine being on the mine. SOU

commence sinking by the end of this week, or early in the next.—Dec. 6.

SOUTH FRIENDSHIP WHEAL ANN.—In. the 52 fm. level east the lode is still of a promaing character, and carries more copper than ever was seen before in that level, and there is every reason to expect improvement. In the 28 creas-cut south we have added two men more, so as to push it on; the ground is rather harder for driving, being composed of black capel, barytes, &c., which is not at all uncongenial for copper in this locality. We are also frequently intersecting floors of bright yellow copper, mundic, &c.—Dec. 9.

SOUTH WHEAL BETSEY.—We have commenced clearing and securing the deep adit brought up from the Great Wheal Friendship, in order to put in timber, &c., for a road, as the water is rather deep. We have also commenced shading, in order, if possible, to cut the lode from whence we expect the greens proceed—that is, in the side of the adit. We intend, in a day or two, to commence driving, in order to cut the Great Wheal Betsey lead lode, which we calculate is about 26 fms.; when cut, it will leave 60 fms. backs to the surface. We are also preparing for a whim, change house, &c., as well as clearing up the slake in the bottom of the shallow adit, where we intend to set a pitch on tribute.—Dec. 9.

SOUTH WHEAL TRELAWNEY.—The shaftmen have been encaged best

SOUTH WHEAL TRELAWNEY.—The shaftmen have been engaged last week in cutting holes for bearers, putting in cistern, fixing lift, &c., and in di-viding and casing down the engine-shaft from the whim-shaft; this week with renewed vigour to sink the engine-shaft.—Dec. 6.

realing and casing down the engine-shaft.—Dec. 6.

TINCROFT.—The 100 fm. level ends are at present unproductive, each end being near a cross-course, beyond which we had a good lode in the level above. The lode in the 90 end west is 20 in. wide, producing some ore. The lode in the 80 end east is 2½ ft. wide, producing good work for tin. At present our tutwork is very limited in this part of the mine, on account of the low price of tin and copper ore, which, no doubt, will be higher again soon. At Palmer's, we have commenced sinking below the 80 fm. level; the lode in the 80 west is 20 in. wide, producing some ore, and kindly. The lode in the 80 west is 20 in. wide, producing some ore, and kindly. The lode in the 70 west it 5 ft. wide, orey throughout, worth 30½ per fm.; the stopes in the back and bottom of this level are worth 20½ per fm. The 60 and 48 west are producing some ore, and kindly. We have now 44 men working on tutwork in this part of the nine, all opening productive ground. At the south mine, on Highburrow lode; the bottom of the 152 is now worked by sight men, at 10s. tributs, and I believe making fair wages. The lode in the 142 east is large, and timy throughout, ground hard; weexpect to hole the winze to the riseshortly. The lode in the 120 east is 4 ft. wide, worth 20½ per fm.; the lode in the stopes is very large (how large we cannot say), and producing good work for tin, worth 25½ per fm. Our pitches in this part of the mine continue to yield fair quality tinstuff. At Whenl Providence, we are cutting down the end of the shaft from the 120 cast is a very large (how large we cannot say), and producing good work for tin, worth 25½ per fm. Our pitches in this part of the mine continue to yield fair quality tinstuff. At Whenl Providence, we are cutting down the end of the shaft from the 120 cast is a very large that large, and will occupy this week.—Dec. 6.

stuff. At Wheat Providence, we are cutting down the end of the shaft from tibe 12 to the 20 fm. level, which will occupy this week.—Dec. 6.

TRELEIGH CONSOLS,—Christoc's shaft, below the 110 fm. level, is sinking in the country. In the 110, east of Christoc's, the lode is 18 in. wide, with stones of ore only, disordered by a part of cross-course. Garden's shaft, below the 100, west of ditto, we are still driving south on the lode, which is very hard, and little ore; in the rise, above the 100 east, the lode is 20 in. wide, in the 100, west of ditto, we are still driving south on the lode, which is very hard, and little ore; in the rise, above the 100 east, the lode is 20 in. wide, in the 10 east, the lode is 2 ft. wide, no ore to value. In the 80, west of ditto, the lode is 2 ft. wide, no ore to value. In the 80, west of ditto, the lode is 2 ft. wide, no ore to value. In the 70, west of ditto, the lode is 14 in. wide, but very little mineral. In the winze, below the 60 west, the lode is 20 in. wide, producing but a small quantity of cro. Wheal Parent engineshaft is sinking in the country. The adic cross-cut north, is driving towards the engine-shaft. In the whim-shaft, below the adit, the lode is 20 in. wide, with good stones of ore, not to value.—Dec. 4.

WEST WHEAL JEWEL.—In the 57 fm. level, east of Williams's cross-course, on Wheal Jswel lode, lode 18 in. wide, unproductive—drove last month, 1 fm. 4 ft.; in the 57 fm. level west, on the same lode, lode 9 in. wide, worth 41 per fm.—drove 1 fm. 1 ft. 6 in. In the 80 fm. level, west of Quarry shaft, on Tolcarne tin lode, lode 18 in. wide, unproductive—drove 3 ft. 6 in. 1 in the 20 fm. level, west of Quarry shaft, on Tolcarne tin lode, lode 18 in. wide, some lode, lode 15 in. with a very promising appearance for tim—drove last month, 2 fms. 4 ft. 6 in. In the 20 fm. level, west of Quarry shaft, on the same lode, lode, lode 15 in. wide, worth 121, per fm.—drove 3 fms. In the deep adit, west of Quarry shaft, on the same lode, lode, lode 15 in. wide, worth

promising appearance for tin—drove last month, 2 fms. 4 ft. 6 in. In the 29 fm. level, west of Quarry shaft, on the same lode, lode 15 in. wide, worth 12L per fm.—drove 3 fms. In the deep adit, west of Quarry shaft, on the same lode, lode 1 ft. wide, worth 5£ per fm.—drove 1 fm. 1 ft; ditto, south. 2 ft. 6 in. In the shallow adit, west of Quarry shaft, on the same lode, lode 18 in. wide, unproductive—drove 1 fm. 4 ft. 6 in. In the stopes, in the bottom of the adit, east of Pryor's winze, lode 5 ft. wide, worth 45£ per fm.—stoped last month, 5 fms. In the stopes, in the bock of the 12 fm. level, west of Pryor's winze, lode 5 ft. wide, worth 25£ per fm.—stoped last month, 4 fms. 3 ft.—Dec. 6 WEST WHEAL MARIA.—The water is drained all through the mine, and the men resumed sinking the eastern engine-shaft under the 30 fm. level—the lods in which is about 3½ ft. wide, producing good stones of ore. We resumed driving the cross-cut south in the 54 fm's level this day. Our engine and pitwork are in good order.—Dec. 7.

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work are in good order.—Dec. 7.

WHEAL, ADAMS.—The eastern lode in the end, extending south from the rise, in the 50 fm. level, is worth 10t, per fm.; the quartzoec lode has been cut into in this level further south, where it is worth 9t, per fm.; we hope to resume stoping this ground in about a week from this time. The jack lode has not been wrought on since our last report; but we have made every preparation to resume stoping it forthwith, and shall, in a few days, commence clearing the level on the western silver-lead lode, and open the orey ground said to

exist south of the new engine-shaft, and be in a position to explore this part of the mine on the numerous branches traversing it. The lode in the 18 fm. lavel is 4 ft. wide, consisting of gossan and stones of black oxide of copperacy very kindly lode; we propose intersecting the middle branches, as also the eastern lode, from the point we have risen on, the gossan part, where neither of them have been seen.—Dec. 7.

very kindly lode; we propose intersecting the middle branches, as also the eastern lode, from the point we have risen on, the goesan part, where neither of them have been seen.—Dec. 7.

WHEAL ANDERTON.—Dec. L.—On opening the lode in the 70, the lode is much better than I expected to see it before further progress was made; the leader on the south wall is 2 ft. wide, very good—this is to the east of the shaft. We shall now turn extension to open on the ground west, and also to extend our workings, so as to put our more men. I may further observe, that we are now getting into the shoot of tin we had to the west in the 69—therefore, I consider the value of the miss ground west still continues to look well, as also the backs. Another pitch has been set, at 3s. in the 1L. We are getting on with cleaning ore with all possible dispatch.—Dec. 9.—Un Saturday, Docember 4, being our monthly setting day, I beg to furnish you with the number of pitches and bargains set at the different fevels:—Two pitches in the back of the 50 fm. level, at 7a. in the 1L; one in the 55, at 6s.; four in the 60, respectively—3s., 5s., and two at 5s. 6d. each; one in the 70 fm. level, 2s. 3d., all of which, I confidently believe, are remunerating prices for the labourers; the 70 fm. level to drive west, at 4L per fm.—the lode in this place is 6 ft. wide, with very good stones of tin. and 2 ft. of it good arving work. The 60 west, at 70s. per fm.—lode 4 ft. wide, from 16 to 18 in good work for tin; in the 60 east the lode is 23 ft. wide, very kindly when set at 55s. per fm., but a great improvement since; the lode, as we leave the slide, is getting larger, and producing more tim—in fact, all the lode is good work work, that will not cost above 3s. in the 1L to make it marketable. I shall sample 6 to 7 tons of tin ore on Monday next, and am still preparing more to follow in succession. The drawing machine will be set to work to-morrow, as the contract with the whim drawers expired on Tuesday last.

WHEAL MARY ANN.—The lode in the 30 fm. level, s

Michell and Son, at 184. 17a. 6d per ton.—Dec. 6.

WHEAL TRELAWNEY.—The lode in the 52 fm. level south is 3 ft. wide, chiefly composed of can, and worth 81, per fm.; the stopes in the back of this level are locking very well. The lode in the 42 south is in a disordered state, producing a little load; this level north is worth 81, per fm.; the stopes in the back are producing a moderate quantity of ore. In the 32 end north the lode is small, but is saving work; the lode in the winze, sinking under this level, is worth 81, per fm. The stopes are yielding a fair quantity of ore. In Tre-lawney's shaft, sinking under the 42, we have met with some branches dipping towards the lode, composed of spar, carbonate of lime, and stones of lead ore; those branches came in the shaft with an elvan-course, which make it hard for sinking. The 42 cross-cut west, and the 22 cross-cut east, of this shaft, are not much changed. At Vivian's shaft the lode is yielding some good ore.—Dec. 7.

FOREIGN MINES

FOREIGN MINES.

ALTEN MINES.—Mining report from the 8th to the 96th October, 1847.—Raipas.—The improvements before alluded to continue to make a gradual and steady progress, and the prospects, for enabling us to make regular and permanent returns, are now greater than for many years past. Shaft No. I has been holed to the workings on Carr's lode, and, next month, we hope to commence stoping on the reserves laid open by the former excavations. A communication has also been formed between the foot stops at the surface, and the roof stope on Labouchere's lode, which, by means of the adit and 5 and 10 fm. levels, has now been explored to a perpendicular depth of upwards of 29 fms. The lode in the 5 fm. level continues to make fair returns, and is equally promising; whilst in the 10 m. level in the andergone a still greater improvement. A new plat has been eat in the 10, and a penthouse has been put into Monk's shaft, and we hope to commence sinking towards the 20 fm. level in the early part of next week. The immense collection of ore in the old 20 fm. workings prevents us from resturing operations in this part of the mine; but we will appeale the two wick as soon as possible, for the purpose of intersecting Labouchere's hole at this depth. The profitable stopes in the 5 fm. workings, at shaft No. 2, have been fide since the necklont, which happened in the antumn of last year; we have, however, anceceded in getting some timber across the run, and hope to be able to commence rebuilding the shaft about the later part of next month, and, shortly afterwards, the nead operations will be recurred. Both the 5 m. workings, at shaft No. 2, have been fide since the necklont, which happened in the antumn of last year; we have, however, anceceded in getting some timber across the run, and hope to be able to commence rebuilding the shaft about the later part of next month, and, shortly afterwards, the nead operations will be recurred. Both the 5 and 10 fm. levels are at present leaving reserves of good ore; and, without any unfo

ploring it. We shall employ as many triouters as possible on these loads during the winter months. Reper's has undergone no further deterioration; but, on the whole, the prospects are somewhat improved. I fear, however, that we shall be unable to increase the returns from this mine before, next spring, when we shall be able to resume the usual surface work. Mancur's.—The tribute workings have been rather more successful, and the produce of this month will experience a trifling increase. In the early part of next week we hope to be able to commence drawing the water out of the old workings, and shall immediately afterwards set this part of the mine on tribute.

Michael's continues to make fair returns: but I fear the winter will force us to suspend the surface workings, when we shall be obliged to resume others in the mine, but less profitable—and the produce must, in consequence, experience a carresponding decrease. Every exertion shall be made on our part to keep up the usual supply of ore throughout the winter, when we hope to reaume some of the old workings on Nellen's, and the north and south lodes.

Old Mine.—The tributers are still making fair returns, and the work performed leaves a remonstrating profit.

scatalisms.

Coal Oblan's.—The lode has latterly been freegular; but, on the whole, it has not decrieffed—neither do I expect to find any falling off in the present month's roturns.

Withen's is again asspended for the winter, in consequence of the great expense attendup the clearing of ice and snow in such a large extent of open excavations.

Cote'.—Next month, we intend to fork the water to the bottom of the old stopes, and
hall immediately afterwards recommence the tribute pitches, stopped by the great in-

Coler. Next month, we intend to fork the water to the bottom of the old stopes, and shall immediately afterwards recommence the tribute pitches, stopped by the great influx of surface water last apring.

Quenvig.—Another small but good lode, has been discovered by one of the tributers, a short distance from the site of the flord. It does not at present hold out any great hopes of permanency; but, during the short time clapsed since its discovery, a small parcel of ore of a superior quality has been prainced.

New Lodes.—During the last 10 or 12 days, the weather has been unusually favourable, and we have in consequence been able to collect some small parcels of ore at the surface. We shall continue to employ as many hands as possible on these places, in the hope of being able to increase our stocks of ore at the smelting-house, prior to recommencing the smelting operations.

being able to increase our stocks of ore at the smelting-house, prior to recommencing the smalting operations.

BOLANOS MINES.—(From a letter, dated September 13.)

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BOLANOS TRANAFORT.—The business of the transport is proceeding as well as the unfavourable weather permits. Some parts of the engine are already at Salitre, from whence I hope to convey them to the Bote with carts up the country. Some of the heavier pieces of botles, &c., are now at the foot of the Pinal; and, by next weak, I hope the cylinder may also be got so far on its way. The rains have continued very abundant until within those few days; but now the weather has suddenly changed, and I hope the dry season is set in. The teams have suffered greatly from the bad weather, and the impracticable nature of the roads; and I have been obliged to send a large number of fresh unles. If the present weather continues, and we meet with no serious accident, I hope to deliver the whole of the engine in Bote in November.

In Sax Francisco De Parla Mine, the bottoms continue to yield the usual quality; but in the ends, driven a little below from the fourth cross-cut, we have seen nothing to encourage us; and it, after deepening the shaft, and examining the veins, at a still greater depth, we do not meet with better fortune, I should consider the mine had a frit trial, and would advise its abandoument.

Celetter and the produced of the Providencia, and a little above and below it; and we have also some traces of ore at the Guadalupe level, the deepest in the mine; but if the ores in Providencia should suddenly fall, we should have no resources to fall back upon, and the mine must soon cease to yield profit. We, therefore, propose at once to drive a cross-cut from the end of Guadalupe, to examine the principal vein of Celestrian again, much farther to the west, and undermeath some large open workings, which appear, in former times, to have yielded abundance

LORDO BIRE.—In the shaft of San Ignacio, it appears, that the former owner must have smalt through the vein of Malanoche, cutting it at about 80 varas depth, without recognising it; we have, therefore, some hopes from this lode, which has been so fruitful induced decent mines.

Hom a letter, dated October 18.—Everything belonging to the San José engine is now out of Bolanos—a considerable part of it at Salitro—and the heaviest pieces are still at the foot of the Piral. As soon as these hast are conveyed to Bote, the cylinder will also be got so far on its way.

CREATERNALS as signi improving in the ends, after having fallon off considerably towards the control September.

San Agentso of Paula continues nearly the same as at the date of my last advices, with the exception of a slight improvement in the ends at the fourth level; the sudden rush of water, however, leaves no doubt that we are enting a voin—the quality of which I hope to ascertant abortly.

In the sudden rush of a service, the property certain, that the unain body of the Malanoche leads has one papert; but it appears presty certain, that the unain body of the Malanoche leads has one papert but it appears presty certain, that the unain body of the Malanoche leads has one specify of the Malanoche leads has one service of in the lower levels; and, as this look has been as extraordinarity required for its examination. Some stones of ore we have assayed as high as 32 marks per menten; but we have not found anything of the kind, in situ.

IMPERIAL BRAZILIAN MINES.—Gogo Soc, Oct. 2.—I am sorry to say, Gongo

per meeton; but we have not round anything or the kind, as size, and the presents nothing new. The long continuance of dry weather has permitted us to remove the saw mill, half of which is already at Barsand. The continued drought still diminishes the water in our regree, we are, therefore, mable to drain the mine at

yet quite complete, and our labourers' houses are get exercion is being made to got an ample apply of that mencement of the rains, and we have, consequently, if carriers' wages a little. Every brainch of the service served astisfaction.—Gold workings from Gongo Soco, is

—4 lbs. 5 cgs.

PAGHUCA MINES.—Oct. 23.—Epseronsu.—The total depth of the San is about 22 varus below the 50 varu. Isval; and, upon its reaching 30 vadrive another cross-cut south, in order focut the south part, where a little in take 50. This, in my opinion, will be a very important trial, and, pre done by the end of January. The 50 vars level, west of cross-cut, is pre promising blue ove; the part of the lode in which it is found is about 31 roof the mouth 2 quintals were saved, that assayed 18 ms.; and 16 quints Oct. 28.—By the report herowith forwarded, you will notice that the tr in San Guillermo, in the 50 vars level week, on the south part of the vein, promising description—I purpose, therefore, devoting the fundain hand, of the sealing locts, which will be benefitised before the end of the year, of the shalt, and proving the lode at a greater depth.

EEAL DEL MONTE MINES.—Received 8th December, per Ford.

oc. 23.—By the report herowith forwarded, you will noise that the trein, is one of a very promising description—I purpose, therefore, devoting the funds in hand, and the proceeds of the small terts, which will be beeneficiated before the end of the year, to the alading of the shaft, and proving the lode at a greater dogth.

E.E.A.I DEL MONTE MINES—Greaterd 8th December, per Fbrik packet.]—Extracts from a letter dated, Mineral del Monte, Oct. 28:—I beg to acknowledge the receipt of your dispatches of the 31st August, which came to hand on the 20th inst.

Asias—Biscolina—The cross-cut north of San Pablo winner, at the 216 vars level, gio-tecal in my last, lawing cut the foolkam part of the voit, we commoned driving west on the common the whole are rather poor, although branches of outgoing westward. The blot toms upon the whole are rather poor, although branches of outgoing westward. The blot toms upon the whole are rather poor, although branches of outgoing westward. The blot toms upon the whole are rather poor, although branches of outgoing westward. The blot common the whole are rather poor, although branches of mall the desire of the labores go deeper. In the immediate vicinity of San Pablo, we shall not be able to examine the south part of the vein for some time, as we purpose driving east after variation to get clear of the slide, before we drive the cross-cut south. In the workings on the Tapona wein, in the 157 vars level, east of Dolores, and on the Santa Brigdies with, to the north, there is nothing particularly new to notice. They continue to produce a tolerable quantity of accogns, but the average lay from Tapona has somewhat fallen only continued the continued the subject of the particularly new to notice. They continue to produce a tolerable quantity of accogns, but the average lay from Tapona fans somewhat fallen only on the particularly and the process of the water takes place, we hope to complete to the purposed depth of a new tendent particularly and the produced particularly and the particularl

which prevented the charcoal burners from supplying that article for the fundiciones—the consequence was, that all the furnaces were idle for several days. I expect, navertheless, to get about 50 bars, which will about meet the expenditure.

ST. JOHN DEL REY MINES.—Morro Vello, Sept. 28.—Gold extracted to date, 10,429 oits, from 441 34-100ths cable fact of sand=23 6-10ths oits, per cubic foot. Stamps working during 23 days, 66 heads. Supply of stone aboutdant.

Water.—You will see by my diary, that it has been finally determined to supply the additional water required at the highest horizon of the mine works, from the source described in my letter of the 18th inst., which will be connected with the Bananal rego. As the present season, however, is so far advanced, this work cannot be commenced till the beginning of the next far yeason—say, towards the end of Much, or early in April. Meantime, I have, for several weeks past, had a party of 12 or 13 labourers, under the direction of an Englishman, putting the various leats and regos into good repair, and supporting by timber the ground which appeared weak, or likely to give way; so that I indulge the hope, that we may get through the raisy season, whitout any serious mishap.

Mine.—Sinking is going on with spirit in the Gamba and Bahn; and I am happy to say, that the whole establishment is in a satisfactory state, notwithstanding some occasional disappointment in the mechanics' dryarment.

From the Diary, Sept. 55.—William Trelour has finished bits survey of the Cirystae's leat water-course. If appears that the water can be had at a height of 17 feet above our hauling engine, but that would not efford sufficient pressure to send the water through our present pipes to the requisite height on the opposite side; it is, therefore, now determined to adopt the plan referred to in my letter of the 18th inst.—to increase the supply per the Bauanal rego, and this useful work will be commenced at the close of the approaching rainy season—say, about the beginning of April ne

to the lines of th Cargas 445 8863 6 4 81,579 3 5 8715 1 0 7

Cargas 445 8863 6 4 81,579 3 5 8715 1 0 7.

Increase.

4 weeks ending Picked Ores. Half Sales. Sept. 18.-Cgs. 1634 8 5611 5 4 ... Oct. 16 ... 1890 5486 7 0 ... Outlay. Excess of outlay ... \$ 18,119 6 7 \$ 12,507 1 3 14,929 4 4 Cgs. 166 \$ 124 6 4 82,297 5 5 82,422 4 1

Increase. Decrease. Increase. Increa

London, Dec. 8.

Report on the State of the Workings of the Mine of Rayan.

Report on the State of the Workings of the Mine of Rayan.

Sept. 23.—La Parisima.—A small quantity of ore is extracted from this side of the mine, on hacienda account.

San Lorenzo.—The bunches of ore referred to in last month's report, as being found against the upper part of these old workings, having apparently been all extracted, the working have been employed latterly in a higher part of this division of the mine, in throwing down a fair quantity of common one, which contains some small bunches of better quality. This point has afforded an increased produce of one, but its duration is rather limited.

There has also been an irrevessed extraction from San Flo, where at pre-

t any pa

light appearances of ore occasionally present themselves in the hands of quarts that are set through.

Res Affguel.—The pit of Inocentes has been communicated on the north-west side, with a cld working filled with rubbish, the work is being pursued by carrying down the pit at the south-sent side, where some rich threads of ore are found. The other two points in the continuation of the threads of ore are found. The other two points interto worked have seen suspended on hadenda account, and given to the buscones. Our pairs of barmen are employed in Inocentes by day, and an equal number by night. Santo Tavicko. —The pit has been opened out of the south-east side, whilst it has also an extried down on the inclination of the lode. An end is being opened out the south-east did, which will be a continuation of the original level. In the advanced part of the it another end south-east (San Miguel) has been commenced, and the roof (La Merced) also being followed up. In the pit, and end (San Miguel), the bands of ore are found over ramified than at a higher point, and the amount of iedo to be extracted is, in conquence, very considerable, owing to the eme band being close against the lower, and a other close against the lower, and the transpire. In the upper end (Sante Torlich) and roof the bands of ear found approaching each other nearer than in the pit, and the general produce on these upper points is superior to the others, both in quantity and quality. A graall increase has taken place in the produce of ore since the commencement of the work
g, and the extraction last week reached 140 cargas acque, and 40 cargas iterras, wrosen pairs of barmen are now employed by qight only, in improving the road leading to Santo ribio, so as to ensure good ventilation; and a short work of communication is being tree between the despends of the shaft and the road, to full that the conveyance of the star did the cargos iterated in San Antonio, towards the south-east side of the mine to more one in the cargos iterated in San An

MINES OF CERRO DEL BOTE, IN MEXICO.

The following is an extract of a letter from a gentleman in Zacatecas, dated Sept. 18, 1847:—In the course of my journeyings in Mexico, I have recently arrived in Zacatecas, and have been much interested in a visit to the mines of the Cerro del Bote, which bid fair to equal the most celebrated of the Mexican mines. They are situated about a league from this place, and are worked by the English company, which still bears the title of the Bolanos Mining Company, although the old mines of that name have long since been abandoned by the English company, which still bears the title of the Bolanos Mining Company, although the old mines of that name have long since been abandoned by them. By means of an introduction to Mr. Placci, the director of the mines, I was able to form a comprehensive idea of their extent and value. I was particularly struck with the number and great size of the ailver veins which are comprised within the "pertenencias," as the spaces of mining ground are called in Mexico. The three principal veins are the Valenciana, San Jorge, and San Elljio. Their 'creatones' can be traced along the brow of the hill, or cerro, for a considerable distance. It is very curious to follow the line of the veins at surface. One of them is a continuation of the great Cantera vein, which crosses the 'Bufa' of Zacatecas, and was formerly enormously productive in the mine of Quabradilla, which lies between Zacatecas and Cerro del Bote. The extraction of silver ore from that mine amounted to 7000 cargas (300) lise each) per week, and enriched both the owners and the city. Large as this quantity may appear, there is reason to believe, that the Bote Mines may yield ore in still greater abundance, as the present extraction, from a very shallow and limited working, amounts to 3000 cargas per week; and I was informed, that the profit is equal to 3000L/ par month. In order that you may understand more clearly the grounds upon which the expectation of much larger returns is based, I will describe the workings, sithough very briefly, as I have many more things to write to you about. The operations were commenced some 12 years ago, by sinking a shaft from the surface, and driving a level; one of the smalter once being an exception, which afforded some assistance. The sinking of the shaft was continued, and another level driven, at 110 varas from the surface, at which depth the first vein intersected four or five veins—three of which are of very large size, but suproductive of silver at this level; one of the smalter once being an exception, which afford

THE COST-BOOK SYSTEM.

"X. Y. Z." (Isle of Man) wishes to know (under the Cost-book Principle):—

1. To what amount shareholders can be galled upon to respond in the way of calls at one time, and when the same nily be considered due?—2. Whether the financial committee presuming therefrom (there being no directors) have power of themselves to alter, vary, and determine upon, any of the rules, &c., entered into at a general meeting of the shareholders.—8. What steps are necessary to compel an adventurer to pay up his calls, he having neglected to forfeit, in accordance with the 21st clause?—4. When the prospectus states that this "principle" will be strictly adhered to in the operations of the company, and it prove otherwise, are the proceedings void in consequence?—5. Whether the cost-book itself comprise a certain number of rules and regulations clearly and distinctly defined; and, if so, where are they to be met with?

[Although the term "Cost-book System" implies one well-defined plan for the regulation of all mining undertakings, the adventurers in which propose to be guided by its adoption—and, although originally, and until within the last half century, in the custom of the county its details were, doubtless, well understood—innovations have crept in, points of law have been mooted, and, what is termed the "Cost-book System" may now be found in operation in different mining companies, under very different circumstances, and each code of laws wearing very different aspects. Under such circumstances, it is difficult to give an unqualified reply to the numerous queries which we have addressed to us on the subject; we will, however, answer our correspondent's queries to the best of our ability. To the first query, we answer that no call can be made, but at a public meeting of the adventurers; we apprehend the sharebolders are liable for any amount of call so made, and it is to be considered due at the date fixed upon, at the time of making such call, sometimes "payable forthwith;" and, on other occasions, at some future day named. To the second query we should say, that the financial committee have no power of themselves to make, alter, or change, any of the rules and regulations as once entered in the cost-book; power may be delegated to them by the share-bolders at a general meeting, to use their own discretion in the strict administ-bolders at a general meeting, to use their own discretion in the strict administration of the second content of the second of the cost-book; power may be delegated to them by the share-bolders at a general meeting, to use their own discretion in the strict administration of the strict administration in the strict administration of the strict administration of the str the second query we should say, that the handled combined and regulations as once entered in the cost-book; power may be delegated to them by the share-holders at a general meeting, to use their own discretion in the strict administration of those rules, when it may appear, for the interests of the undertaking, that they should be invested with such power. Thirdly—On an adventurer refusing, or neglecting, to pay up his calls, the committee of management are empowered, by the clause in the cost-book, to forfeit his shares, subject to confirmation at a general meeting; or any creditor on the mine can sue such defaulter for goods supplied to the mine—a mode of procedure generally productive of the most summary results; under such circumstances, all that is necessary is, for the purser to supply the name, &c., of the defaulter to the merchant who is willing to sue him. The purser also has a good action against a defaulter in the Stannaries Court. Fourthly—The mode of conducting a mine on the Cost-book System, is based on the rules and regulations entered in the cost-book system, is based on the rules and regulations entered in the cost-book at the first meeting of adventurers, totally irrespective of any prospectus which may have been previously circulated; it being, of course, assumed that every holder is a party to the resolutions passed at such first meeting. Lastly—Our introductory observations apply to this query—we do not thus there is any strictly defined system, which, in all its details, saut be adopted by a company, professing to be conducted under the "Cost-book System;" on general principle guides all, but the regulations and bye-laws differ according to circumstances. The only information, that we are aware of, being published to circumstances. very fully into it; and the m

CARADON CONSOLS

Sin,—As this mine has been "knocked" for a long tis have been sold many months age to the South Caradon time to hear something of the dividend which the unformay expect. Money being now so scarce, and Christmas tradesmen expect their bills to be noted in mpany, it is high

WHEAL ANDREW AND NANGILES MINING COMPANY

WHEAL ANDREW AND NANGILES MINING COMPANY.

Sir.—When an individual speaks of the property of a public company, it is imperative on him, if he has any respect for that good faith, upon the due observance of which the very existence of our commercial system depends, to use all means at his command to ascertain the correctness of any report, that may have an injurious tendency towards the interests of such company, before giving it publicity. Your correspondent, "An Adventurer," in Andrew and Nangiles, appears to have adopted a contrary course—in forwarding for insertion in your columns, immediately on its receipt, or without further inquiry, a report of the above nature, not only false, but absolutely without foundation. I take it for granted, that your correspondent is, as he subscribes himself, "An Adventurer" as it would not be in accordance with your usual care to have omitted satisfying yourself on this point, before giving such a report currency); and, therefore, I suppose his motive to have been, to obtain a more efficient management for the future. Such a proceeding cannot, however, he too strongly reprehended. If "An Adventurer" had observed, on the part of the managing agent, anything whereon to found such charges, as those contained in his communication to you, his proper course would have been to have laid such before a meeting of the shareholders, and there to have substantiated them; and if they had not been astisfactorily met, or have failed to effect the desired change, he would then have been justified in publishing a report of the meeting, with his comments thereon. This would have been more likely to remedy the evil, had any existed, and would have saved him the unpleasant reflection, of having made an erroneous statement, tending to the injury of his own interest as well as that of his copartners. In conclusion, I may observe that I have long watched the management and progress of this undertaking, and am convinced, from my personal knowledge of the managing agent, and many of the parties conn

WHEAL BARBARA AND CASCADE MINES.

WHEAL BARBARA AND CASCADE MINES,
Sir,—The letter of Mr. Truscott, which appears in your paper of the 27th
Nov., in reference to these mines, contains statements so utterly devoid of truth,
that I cannot, in fairness to the public and myself, abstain from replying to it.
I. I am a holder of 45 shares in the above mines, as Mr. Truscott is very well
aware—he being fully cognisant of the circumstances under which they were
assigned to me, and having himself offered me 10s. per share for Cascades, and
20s. per share for Wheal Barbaras. The certificates and assignments to me may
be seen at Mr. Trenery's, Threadneedle-atroet.—2. Mr. Truscott (whether it be
his duty or no) does interfere with prices, else why does he notice my last letter
to you instead of Mr. Taunton, the secretary, whose duty it appears to me to
be, and who is as fully aware of all the circumstances connected with my holding, as Mr. Truscott himself?—3. My "motive" is apparent: it is to disabuse
the public, and sell the shares which I hold, at the best price I can get for
them: and if any one is inclined to give me the price specified in the advertisement sent herewith for insertion, I will accept the offer, and the purchaser
will, of course, not pay his money until I show a perfect title. So much for
my possessing no title.—Heinrich Fischer: 6, Liescols's-Lus-Fields, Dec. 3.

BEDFORD UNITED MINING COMPANY.

At a special general meeting of shareholders, held at the offices, Old Broadstreet, on Thursday, the 9th inst.—John Browns, Esq., is the chair—the notice convening the meeting having been read, it was resolved,—"That the present rules and regulations, for the government of the company, be rescinded, and that the affairs of the company be in future conducted on the Cost-book System."—"That a committee of management, consisting of the late directors of the company, be appointed, for conducting its affairs, till the next general meeting of adventurers."—"That the shareholders be requested to deliver their scrip at the office, and sign the cost-book, when they will receive an acknowledgment for the amount of scrip deposited, certifying their holding in the mine."—"That transfers in future be made in the usual way, in accordance with the mode in use on the Cost-book System."—A vote of thanks having been past to the late directors for their services, and to the chairman, for his able conduct in the chair, the meeting separated. It appeared, that the funds in hand, including profit to the end of Oct., amounted to 2201. 5s. 3d.—that the estimated profit for Nov. would be between 4004. and 5004., and the mine still continuing to look well.

MARKE VALLEY CONSOIS MINING COMPANY.

that the estimated profit for Nov. would be between 400% and 500%, and the mine still continuing to look well.

MARKE VALLEY CONSOLS MINING COMPANY.

A meeting of adventurers was held at the White Hart Hotel, Salisbury, on Wednesday, the 1st inst—William Fawcett, Esq., was requested to take the chair, and who, in a very clear and comprehensive manner, explained the reasons which induced the directors to convene the present meeting, and then called on Mr. Handing (the secretary) to read the notice, and the reports which had been drawn up for the information of the shareholders at large. The directors have great satisfaction in meeting the shareholders at a period when they are enabled to report, that for the first time, after nearly nine year perseverance and outlay, the mine is more than paying its own cost. With the view of placing before the adventurers a complete statement of the present condition of the mine, the directory have caused the attendance of their agent, who has prepared his report of the workings up to Saturday last, and who will give all necessary explanations relative thereto.—Capt. Seccombe's report was then read, as follows:—"In compliance with your instructions, I beg to hand you the following report of the operations since the 6th April last, and the present appearances of the mine:—In the 80 fm. level the cross-cut has been extended 4 fms. 1 ft. 9 in., at which point Marke's lode was intersected, and we have driven east on its course 25 fms. 2 in.; the lode as present is 20 in. wide, composed of quartz and fluor, with spots of copper ore; we have also driven west on the same lode, in this level, 15 fms. 1 ft. 11 in.; in the present end the lode is about 2 ft. wide, composed of quartz, prian, musdic, and rich stones of copper ore; the ground continues favourable for driving, and contains good indications of an early improvement. In the 45 fm. level we have driven east on the south part of Sarum lode, 4 fms. 5 ft.; it he lode in this end is about 10 ft. wide, and will produce about 5 fms. 1 This statement, together with the reports, gave general satisfaction.—A vote of thanks to the directors was proposed by Mr. Squalker, who observed, that this was not an idle compliment, for all must be convinced that they were indebted to the great and gra uitous exertions of those gentlemen, for the present prosperous position of the mine.—The vote of thanks being unanimously carried, and responded to by the Charman, the meeting separated.

CALLINGTON.—The following is a statement of accounts for the three months ended Sept. last—viz: To July, August, and September cost, 5975d. 9a, 4d.; discount and interest, 301. Isa 3d.; directors and London management, 1121. 10a; sixth dividend, 1000d.; reserve fund, 100d.—together, 7218d. 14s. 7d.—By silver-lead area sold, 5945d. 9a. 7d.; from Kelly Bray copper ore, 669d. 9a. 6d.; silver, 31d. 16s. 9d.; balance at last account, 870d. 16s. 3d.,—7517d. 12s. 1d.; leaving balance in favour of adventurers, 298d. 17s. 6d.; to which add, subsist, 299d. 17s. 6d., in addition to which the reserve fund amounts to 610d. 19s. 6d. HARROWBARNOW OLD MINE.—A quarterly meeting of adventurers was held at the Globe Hotel, Plymouth, on Thursday, the 2d inst., when the purser's accounts to that date were examined and allowed; the resignation of the purser was accepted—a full release and indemnity to be given him on his giving ap the books and papers. A call of 30s. per share was made; an indemnity given

the 9th iast, at the same place.

BUDNICK CONSOLS—At the usual two-monthly meeting, held on the mine, on Monday last, the following statement of accounts was allowed:—To balance at last account, 1381. 0s. 10d.; costs, &c., for Sept. and Oct., 11921. 7s. 4d. — 13251. 8s. 2d.—By ores sold (less dues), 8851. 7s. 7d.; carriage of tin, 151. 7s. 9d.—9004. 15s. 4d.—Balance against adventurers, 424. 12s. 10d.

EAST WHEAL AGAR.—A meeting of shareholders in this mine, which is in St. Cleer, was held at Lostwithiel, on the 29th of November, when the accounts to the end of September—showing a balance of 81. 18s. 5d. in favour of the adventurers were examined and passed, and a call of 11. 10s, per 128th share ordered.

share ordered.

WHEAL BREWEE.—A meeting of adventurers took place at the mine on Tuesday last, at which the accounts, from Aug. to Oct. inclusive, were submitted, and passed, as follows, and a dividend of II. per share declared:—By balance at last account, 91l. 7s. 7d.; ores sold (less dues), 1310/1. 7s. 6d.—1401l. 15s. 1d.—To costs, &c., 1176l. 10s. 10d.; dividend of II. per share, 120l.—1296l. 10s. 10d.—Balance in purser's hands, 105l, 4s. 3d.

WHEAL LOVELL—At a meeting of adventurers, held at the mine, on Friday inst., the accounts, of which the following is an abstract, were allowed:—To balance at the end of June, 5208l. 15s. 7d.; costs, &c., for July, August, and September, 3173l. 13s. 3d.—3882l. 9s. 4d.—By received on calls, 412l. 10s.; ores sold (less dues), 3678l. 2s. 11d.—4090l. 12s. 11d.—leaving a balance against the adventurers of 4291l. 16s. 5d.

**TAYY CONSOLS—At a two-monthly meating, held at the side of the side o

tember, \$1736. 138. 90. — 88326. 98. 40.—By received on cains, 4126. 1015, sold (less dues), \$6736. 28. 11d.—4930. 128. 11d.—leaving a balance against the adventurers of 4291l. 16s. 5d.

**TAYY CONSOLE.—At a two-monthly meeting, held at the mine, on the 7th inst., the accounts were examined and passed, showing balance from last account, 156l. 19s. 3d.; costs, September and October, 422l. 7s. 6d.; merchants' bills, 58l. 18s. 2d.—638l. 4s. 11d.—By calls, 236l. 5a.; ore sold, 474l. 16s. 7d.—11l. 1a. 7d.—leaving balance in favour of adventurers of 72l. 16s. 8d.—It was resolved, that Capt. W. Goss be appointed first captain of the mine, pro. tem., in consequence of Capt. Martyn having broken his leg; and that Capt. Gilbert be continued as dressing captain, with an addition of 1l. per month to his salary, for assisting in keeping the accounts; Capt. Goss to be allowed 5l. 5s. per month; that the captain's report be printed and circulated among the shareholders; that the thanks of the meeting be given to the committee of management, and that Admiral Treinlett, Captains Bulkeley and Hambly, and Messrs. Rendle and Foy, be the committee for the next two months. The following report from Capt. Goss was read to the meeting:—"The engine-shaft is dewn 11 fms. below the 12 fm. level, and we intend to sink 2 fms. more before we drive again. We shall leave 1 fm. fork, and commence autting a plat for a 36 fm. level, in about a month from this time. The lode at present in the engine-shaft has a leader of solid ore, from 2 feet to 25 feet wide, and the lode producing saving work the whole width of the shaft—worth \$5l. to 40l. per, fm. The pitch in the adit level is much the same as before. The pitches in the back of the 12 fm. level are rather improved; the pitch in the bottom of this level is looking very promising, and has improved the last few days—the lode having increased in size, with a good branch of ore in it. We sent away about 24 tons of ore last week (towards our next sampling, which will be about 80 tons, to be sampled

sent away about 24 tons of ore last week, towards our next sampling, which will be about 80 tons, to be sampled by the 20th or 21st of the month."

WHEAL ASH.—At an adjourned meeting of adventurers, held at Plymouth, on Wednesday, the 1st inst, it was resolved, that the accounts to the end of October be allowed and passed; that a call of 1l. per share be made, one-half payable on the 30th inst., and the remainder on the 1st Feb., 1848; and that the captain's report be printed, and circulated among the shareholders, previously to the general meeting.—The following report from Capt. Edwards, was read to the meeting:—"The castern engine-shaft has been sunk to a level with the deep adit, a depth of 35 fms.; and in driving the cross-cuts to intersect the north and south lodes, the water increased to a very great extent, and the whole having to be lifted to surface, the engine could not keep it off—therefore, we were obliged to suspend the prosecution of this part of the mine until the adit unwaters the shaft, when the further development of this part of the sett, which has a very promising appearance, will be resumed. In bringing up the deep adit, the north lode has been intersected, not far to the wast of the eastern boundary of Wheal Anderton, where its appearance gives us reason to expect ore shortly; it is about from 3§ ft. to 4§ ft. wide, with two well defined walls, and is composed chiefly of mundic, with a little gossan, peach, and spots of ore; gowards of, 20 fms. have been driven on this lode, and the same character is maintained throughout, there being a course of mundic from 3 ft. to 4 ft. wide, nearly solid, with an underlay north, of about 1 ft. in a fm.; not being able to keep the water at the eastern shaft, where we had 35 fms. to lift it, we have removed the pump-work to a shaft on this (the north lode), for the purpose of sinking below the adit; and the lode better than I have ever before seen it.'

V GREERAL MINNO COMPANY FOR IRELAND.—The fourth half-yearly meeting of the intersection. New 4 fms. below the adit, and the lode better than I have ever before seen it.'s
GENERAL MINING COMPANY FOR REPLAND.—The fourth half yearly meeting of this company was held at their board-room, Burgh Quay, Dublin, on Monday, the 6th inst., at which Sir James MURRAY (chairman of the board) presided.—The report of the directors, setting forth the operations of the company for the previous ix months, was read, which appeared to be satisfactory to the proprietors. Amongst other matters, the report stated that the operations of the company at the present time provided for the large number of 1014 persons in the immediate neighbourhood of the mines, in the county of Tipperary; and that they have been distributing to their workpeople three tons of meal per week at first cost cash price. After the transaction of some routing business, thanks were voted to the chairman and directors, for the zeal and ability with which they had carried on the company's affairs during a period of such unparalleled distress.

of such unparalleled distress.

Newlan in Pydhar.—The mining interest in this and the adjoining parishes is, at present, much depressed. A great number of the smaller mines have suspended operations altogether, and the larger ones are reducing their establishments. The great fall in the price of lead, has, doubtless, had an injurious effect; but, independently of this, the pressure of the momen market, and the gloomy prospects of all mercantile speculations, have been felt here as elsewhere.—Plymouth Journal.

Wheal Anderson.—Among the mines in our neighbourhood, we may mention that Wheal Anderson, near Tavistock, is now likely to pay back to the perssure energy and their indefatigable captain (Carpenter), who holds a considerable interest in the concern, a very handsome return for their outlay. On Saturday last nine pitches were set on tribute at different prices—viz., 2s. 3d., 3s., 5s. 6d., 5s., 6s., 7s., 7s., in the 1t.—besides driving ends in the 70 and 60 fms. levels, at low prices, with 1s. tribute, on the ore vaised on driving. Two or three pitches more are to be at this week: 20 heads of stamps are now at work constantly. There is a new drawing and stamping-engine just erected, which went to work last week.—Plymouth Journal.

PETRIFIED HUMAN BODY IN A COLLIERY.—We have been informed, that there has been discovered in a coal-pit, near Edinburgh, at a depth of from 20 to 30 fms, a petrified human body, which, unfortunately, the numers broke; but three pieces have been preserved—portions of the arms, and a foot and a leg, half-way up to the knee, the toes broken off.

leg, half-way up to the knee, the toes broken off.

THE MEXICAN PACKET.—The Forth, Royal West India Mail Company's steam-ship, grived at Southampton, on Tuesday night, with the usual mails and despatches: her latest dates are—Tampico, October 25; Honduras, 20; Chagres, 26; Carthagena, 28; Vera Cruz, November 8; Demerara, 3; Trindado, 5; Barbadoes, 8; Jamaica, 8; Grenada, 10; St. Thomas's, 15; and Bermuda, 21. The freights consist of \$125,810 and 33 cents, on merchants' account; \$182,509 S cents in gold; silver in bars, valued, as per bill of lading, 6214. 17s. 4d. in British coin; 40 serons of cochineal, 3 ditto of barilla, 1 box of pearls, 1 case of tortoise-shell, 54 lbs. 9\cdot coch containing about 10,000; 5 bales of bark, 316 lbs. 8 czs. of gold, 108 lbs. 9 czs. of silver, besides a variety of other packages of value.

THAMES TUNNEL COMPANY.

The number of passengers who passed through the Tunnet in the week ending Dec. 4, was 15,319; Amount of money, £63 16s.7d.

ACCIDENTS - [Conferred from page 583.]

A shocking occurrence happened on Wednesday last, at Mr. James

Prightful Accident. Frightful Accident.—A shocking section of the property of the that trey might be corried; on the source of the since. A desire to serve their fellow men, onght to urge those gentlemen in their endeavours to get their favention adopted Pittal to urge those gentlemen in their endeavours to get their favention adopted Pittal grant of the falling fit of a pit; we have just learned, that the men have, through the exections of Mr. Watt, of Dysart, and his hands, been got eat, but all dead, and fearfully crushed. The pit was worked by the Carron Coupany.

Serious Accident to Capt. Martyn, of Tury Consols.—On Wednesday last, as Capt. Martyn, the agent of Tury Consols was riding through Tavistock, his horse shed and ran against a cart wheel, and thus jammed his rider leg so severely as to fracture the leg bons. Capt. Martyn has since been confined to his bed, but we understand that he is now doing well.—Physical Serious as heart and have plant as heart and the property of the contraction of the leg to the confined to his bed, but we understand that he is now doing well.—Physical Serious as heart above, show, near midnight, fell into an old shaft

Blockwoler.—W. Hölmen, on leaving a beer-shop, near midnight, fell into an old of the Prince Coburg Mine, abundoned 22 years since, and was killed. When will printers be compelled to seeme abandoned shafts? It would appear as if they we fully left as pitfalls to catch the unwary.

Plymouth Levels. Two men were severely hurt by an explosion of gas.

**Rant-y-glo.—Eleven persons suffered here from inhaling carbonic act gate died, and the other three were recovered—among the deceased, we come named Parker. ere from inhaling carbonic acid gas, of whered-among the deceased, were a father

Current Brices of Stocks, Shares, & Metals,

The state was and and the days as the state of the state	CONTROL OF STREET STREET, STREET STREET, STREE
STOCK EXCI	AANGE, Saturday morning, Eleven o'cloc
Bank Stock, 9 per Cent., 188	Belgian Bonds, 4 per Cent., 88
8 per Cent. Reduced Ann., 844 f	Datch. 25 per Cent., 865 Brazilian, 8 per Cents., 802
B per Cent. Annuities,	Chilian, 6 per Cents., 91 90
he per Cent. Ann., 85# 6	Mexican, 5 per Cents., 17f
Long Annuities, 81	Spanish, 5 per Cents., 174
India Stock, 10; per Cent., — 3 per Cent. Consols for Opg, 86; 3	Portuguess, 4 per Cents., 22 8
Enchequer Bills, 1000/. 3d., 4 5 pm.	Russian, 5 per Cents., —
CONTRACTOR SECURITY S	AND RESIDENCE AND PROPERTY OF THE PARTY OF T

1996

MINES.—The business done in the share market has been rather limited although several shares in the Devon Great Consols, Trelawney, and a few other leading mines, have changed hands, and some private negociations completed, which have been open for the last formight.

The inquiries for Devon Great Consols have continued during the week,

tions completed, which have been open for the last fortnight.

The inquiries for Devon Great Consols have continued during the week, which, we believe, will end in business.

The improvement lately made in Caradon Wheal Hooper has created a demand for these shares, and several have been done at advanced prices. Several inquiries have been made for Condurrow shares, but we are not sware of many having been sold at an advance.

The directors of the Callington Mines have issued their quarterly statement of accounts proparatory to the general meeting, to be held on the \$2d, by which it appears, that the returns have not met the expenditure, which may be accounted for by the costs of Kelly Bray (a new and important part of the sett) being included in those expenses. The reserved fund-presents 6104; and, although no dividend can be declared, we believe, from the improved state of the mine, it will be resumed the next quarter. Inquires have been made for the shares, still we are not aware of many transactions having been effected.

The Bedford United meeting was held on Thursday, for the purpose of consulting the shareholders on the propriety of substituting the Cost-book Principle instead of the present holding by serip, when an unanimous resolution to that effect was passed. The profits, since the last annual meeting, may be estimated at about 26001.—consequently, a dividend may be expected at the next meeting.

Shares in the following mines have changed hands during the week—viz.: Devon Great Consols, Carn Brea. Trelawney, Trehane, Herodsfoot, Caradon Wheal Hooper, West Wheal Friendship, Callington, East Crowndale, Bedford, Condurrow, Plymouth Wheal Yeoland, Tavy Consols, Mary Ann, South Basset, Stray Park, Tamar.

Since our last, the following arrivals of specie have been announced—viz.: 3d inst., per the Washington, from New York, with 30,0001, gold; 5th, her Majesty's steam-sloop Cormorant, \$1,600,000; 7th, Royal Mail Company's ship Farth, \$125,510, \$182,509 in gold, 6211, silver in bars, 316 ibs. in gold, 10,86

RAILWAYS.—A slight decline in Consols on Monday had an unfavoursole effect on the railway share market, and transactions were but few.
This state of things continued up to mid-day on Tuesday, when considerable improvement took place, and shares were in pretty brisk demand.
During the remainder of the week prices remained steady, although buyers
were not numerous. Upon the whole, the market appears to have recovered its tone, which had evidently flagged in the early part of the week;
softwithstanding less business has evidently been done than during the
previous week.

MERINGS.—JAKAICA SOUTH MIDLAND: special meeting; to receive the heads of an agreement with the Jamaica Railway. The latter are to take all the engagements and liabilities, to make two calls of 10s. per share; 5 per cent. interest is to be allowed to the barsholders in the South Midland Company, from its January, 1848. After some disnassion, it was agreed to adjourn to 6th January next, to further consider the subject

HULL, TRUBEDAY.—The share market has been gradually declining since our last without any particular reason; money, in fact, is rather easier, but railway proprietors to much under the influence of calls to increase their investments, and by so doing o support and confirm any improvement which the rather more cheerful aspect of the noney market might be fairly considered to justify.

RAILWAY TRAFFIC RETURNS.

Loth | Present as- | Price | Last | Toutle Returns

Mame of Railway.	Rway.	tual cost.	per share	Div.	Trapic 1847	1846
Arbroath and Forfar	15	£179,939	26	4p.c.		295
Chester and Birkenhead	15	706,793	38	-	561	507
Dablin and Drogheda		733,655	54	34	709	613
Dublin and Kingstown		473,282	-	7	813	839
Dandee, Perth, and Aberdeen		285,745	35	6	722	343
East Lancashire		1,207,490	214	-	810	584
Eastern Counties		7,698,370	16	5	10054	8023
Eastern Union	43\$	979,926	60	-	1130	408
Edinburgh and Glasgow		2,375,745	47	6	2738	3972
Edinburgh and Northern		953,207	164	-	537	-
Glasgew, Paisley, and Ayr		1,890,547	121	7	2308	2126
Glasgow, Paisley, & Greenock	23	838,964	184	3	952	907
Qt. Southern & Western, Ireland	1101	1,876,326	23	3 -	1892	692
Qreat Western	2404	10,630,763	98	8	15146	15027
Kendal and Windermere	104	147,001	23	-	83	1 C 00
Lancaster and Carlisle	70	1,291,913	541	-	1089	-
Lancashire and Yorkshire	921	6,807,814	754	7	8498	8166
London and North Western	428	20,010,467	184	9	35122	34561
London and Blackwall	- Au	1,146,289	45	2 4 19	718	708
London, Brighton, & South Coast	147	5,659,180	484	4	6800	6268
London and South-Western	186	5,836,132	A5	9	6804	5964
Londonderry and Enniskillen	144	160,013	244		-	-
-Manchester, Sheffield, & Lincolnsh.	491	2,078,135	80	8	1957	1810
Maryport and Carlisle	28	424,417	5170mm	310	527	527
Midland Company	882	8,659,604	1074	7	18377	16157
Midland Great Western (Irish)	264	583,776	-	-	866	(C22)
Newcastle and Carlisle	65	1,184,080	117	6	2034	2075
Norfolk	704	1,375,633	824	6	1714	1311
North British	78	2,514,150	26#	8	1809	1310
Shrewsbury and Chester	17	591,158	21	100	563	165
South Devon	29	1,339,860	24	di de tro	884	265
South-Eastern	1574	6,398,218	81	6	7121	6299
Taff Vale	38	785,607	-	84	1709	1221 .
Uster	25	646,211	52	6	673	760
.Whitehaven Junction	12	130,000	-	44	183	-
York, Newcastle, & Berwick	2364	3,685,102	331	9	10215	7118
York and North Midlend	196	8,196,869	75	10	7147	5840
FOR	EIGN	RAILWA	YS.	Story	700	10.100-13
Amiens to Abbeville	28 1	573,338	- T	4 1	967	1
Antwerp to Ghant (three weeks)	31	Transport I	W. Carlot	100	1313	See 51
Belgian	250	CANTON SAT	STREET	142	64135	60670
Dutch Rhenish	574	no make the	24	-	920	878

Amiens to Abbeville		573,338	4 -	1.4	967	1 -	
Antwerp to Ghant (three weeks)	31	STATE OF THE PARTY	1 m	-	1313	10.5 mil	
Belgian	-	CO. 12 (1976) 54	09 P.DET 8	1144	64135	60670	
Dutch Rhenish	574	The second of	24	-	920	878	
Morthern of France	211	2,000,000	110.114	4	100	7730	
Orleans to Bourges (Central)	70	and the same of the	100	100	-	100	
Orleans to Tours	72	600,000	200		1000	2485	
Paris and Orleans	82	2.011,720	474	121	Maria .	7220	
Paris and Ronen	85	2,082,916	354	94	6409	7635	
Houen and Havre	591		194	1.0	8873		

Strasburgh and Basle (monthly) 88 ____ 8 14 9080 10227
West Flanders (ditto) ___ 14 __ 1615 ___ Total earnings for last week, £155,227, being an inc of £21,107 over last year.

**TEAST INDIAN RAILWAYS.—In the House of Commons, last evening, in answer to a question from Lord Jocelyn, Mr. C. Lewis stated, that the Calcutta Presidency had consented to the construction of a line, called the Indian Railway Company, from Calcutta into the interior, the terms being that the sections abould be executed so that the line should cost no more than 3,000,000?. The Government were to find the land, and were to guarantee interest at the rate of 5 per cent., and to have the option of purchasing the line in 25 or 50 years. A similar offer had been made to the Great Indian Peninsular from Bombay, inwards thirty-five miles in length. No arrangement had been Madras line.

Madras line.

*DEFAULTING SHAREHOLDERS.—We observe, Mr. Wyld, M.P. for Bodmin has begun his Parliamentary career, by moving for returns of the numbers o bankrupts and insolvents for some years past, including the names of sucl directors of the Bank of England as have failed during the period. We would suggest another return to be called for, that would be extremely useful to the minung interest of this county—viz.: a return of the number of mines which have stopped working from the non-payment of calls; and the names of sucl Members of Parliament as have refused to pay their calls.—West Briton.

COPPER ORES

At SWANSEA, for sale Dec. 23.—Cobre 80, ditto 76, ditto 65, ditto 13, ditto 9, ditto 106, ditto 104, ditto 81, ditto 70, ditto 65.—Cuba 165, ditto 101, ditto 61, ditto 67, ditto 67, ditto 67, ditto 68.—Burna 89, ditto 73.—Knockmahon 115, ditto 80, ditto 73, ditto 62, ditto 63, ditto 63, ditto 63, ditto 61.—Burna 89, ditto 74, ditto 51.—Bershaven 117, ditto 94.—Holyford 70, ditto 47, ditto 47, ditto 74, ditto 74, ditto 75, ditto 75,

PRICES OF MINING SHARES

Activities and a second and a second and a second activities activities and a second activities activities and a second activities activities activities and activities activi	INING SHARES, O CANONICAL TO SERVICE
DRITISH MINES.	BRITISH MINES—continued.
Shares. Company. Paid. Price 1000 Abergwessin 7	Shares. Company. Paid. Price. 256 Sth. Friendsh. Wh. Ann 16 25
1000 Abergwessin	200 South Harvannah 10 - 25
256 Alternum Consols 2 15	200 South Harvannah 16 25 236 South Tolgus 7 4 40 256 South Trelawney 20 54 128 South Yeoland 164 20 128 South Wheal Basset 110 20 124 South Wh. Francis. 156 200 256 South Wh. Hope — 5 1500 South Wh. Maria. 24 2 256 South Wheal Rome 144 1
10000 Ayrshire Iron Company 5 1	128 South Yeoland 164 20
1624 Balleswidden 9 18	124 South Wh. Francis 160 - 200
256 Alternum Consols 2 15 238 Andrew and Nauglies 25 11 10000 Ayvahire Iron Company 5 15 1624 Balleswidden 5 16 138 Besincon Consols 25 25 10000 Banwen frou Co. 5 16 1000 Barristown 4 10 1000 Bedford 2 3 4 128 Besore Lead Mine. 14 10 318 Birch Tor Tin Mine. 24 10 3000 Bleanayon 50 23	1000 South Wh. Maria 21 2
4000 Bedford 34 34-1	256 South Wheal Rose 11 1 256 South Wh. Sophia 4 41
318 Birch Tor Tin Mine 24	19000 Southern&Western,Irish 2 4 280 Spearne Moor 30 40
100 Botaliack	200 South Wh. Sophia. 4
120 Brewer	128 St. Michael Penkivel 5 103
- Ditto ditto, scrip 10 12 128 Budnick Consols 521 40	1000 Stray Park 43 . 20-2 9600 Tamar Consols 3 . 4
1 128 Burthy 20 21	6000 Tincroft
100 Bwich Cwmerfin 20	1000 Tin Vale 2 2
1000 Callington 19 3-4	256 Trehane 2 27 5000 Treleigh Consols 6 33
128 Caradon Mines 224 17 2000 Caradon Mines 224 17	
1 200 Caradon United 24 2	96 Tresavean
256 Caradon Wh. Hooper 21 12 1000 Cara Brea 15 102	120 Trethelian 5 . 16 120 Treviskey and Barrier 130 125 268 Trevean 14 25
1000 Carn Brea 15 1022 2048 Cascade 2 112 Charlestown 220 30 166 Cleveland 9 5	258 Trevean 12 25 128 Trewellard 12 26 100 United Mines 300 350 256 Wellington Mines 15 30
112 Charlestown	256 Wellington Mines 15 30
1900 Combmartin 74 8	956 West Cavadon 90 140
500 Comblawn	512 West Fowey Consols 40 15
256 Condurrow 20 35 2560 Cook's Kitchen 14 2	256 West Providence 9 . 20 200 West Seton 40 . 150
2048 Coombe Tin Mins 41 2 1000 Coombe Valley Quarry 2 3	- West of Scotland IronCo. 210. 210 120 West Trethellan 5 35
1000 Copper Bettom 1 1	256 West United Hills 61 1
240 Craddock Moor 151 15	256 West Wh. Friendship. 8 . 10 3845 West Wheal Jewel 11 11 2560 West Wh. Maria 21 11
2018 Coumbe Tin Mino 4 2 2 2 1000 Coumbe Valley Quarry 2 3 1000 Couper Bettom 1 1 1024 Costeen 4 20 240 Craddock Moor 15 15 15 15 16 16 16 16	2560 West Wheal Rough Tor 2. 2
2048 Dartmoor Consols 2 2 300 D.Prior & Buckfastleigh 14 26	256 West Wheal Shepherd. 5 21 256 West Wheal Tolgus 211
2048 Dartmoor Consols 2 2 2 2 2 2 2 2 2	256 West Wheal Treasury 19 10 5200 Wicklow Copper 5 112
7100 Derwent	184 Wheat Adams 51 10
1 1000 Dhuroda 2 ** 0	206 Wheal Albert 10 8
186 Dolcoath	256 Wheal Allen 2 5
3000 Dyfngwm 10 124	
10000 Drake Walls 10000 Draham County Coal 45 9 3000 Dyfngwm 10 124 256 East Alvenney 10 25 112 East Caradon 42 42 42 244 24 256 East Cowndale 44 34 35 12 East Combe Silver-Lead 64 64 64 64 64 64 64 6	512 Wheal Ann, Bridford 1 2 512 Wheal Anna Maria 5 1024 Wheal Ash 4 8 120 Wheal Bal 5 20
512 East Combe Silver-Lead 64 64	1024 Wheal Ash 44 8
100 Fast Polistian 22 40	2560 Wheal Barbara 1 4-5 256 Wheal Benny 10 6
— East Wheal Albert 1 3 94 East Wheal Crofty 280 125 256 East Wheal Fortune 2 3 128 East Wheal Rose 50 1250	
256 East Wheal Fortune 2 3	256 Wheal Bucketts 20 5 256 Wheal Calstock 3 4
2048 East Wh. Rough Tor 2 2 — East of Scotland Iron Co. 24 4	256 Wheal Calstock 3 4 136 Wheal Clifford 190 190 1024 Wheal Coad 1
	6000 Wheel Curtis
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128 Goonvres 4 14 2444 Grambler & St. Aubyn — . 12	256 Wheal Louisa 8 8 8 112 Wheal Margaret 79 250
100 Great Consols 1000 400 256 Great Callestick Moors 22 25 2560 Great Michell Consols 11 3	112 Wheal Margaret 79 250 256 Wheal Maria (Hayle) 24 2 512 Wheal Mary Ann 5 16 256 Wheal Mary Consols 38 25
2560 Great Michell Consols 11 31 256 Great Resugga Moor 7 10	256 Wheal Mary Consols 38 25 210 Wheal Prospect 4 7
512 Gt. Wh. Rough Tor Con. 134 25	210 Wheal Prospect 4 7 120 Wheal Reeth 27 80 128 Wheal Rose 60 45
256 Gwinear Consols 7 20	2048 Wheal Samson
	286 Wheal Sisters 294 20
256 Herodscombe 44 44 256 Herodscot 16 19	256 Wheal Sophia 5 10 128 Wheal Spearne 10 75 128 Wheal St. Ann 9 15 260 Wheal Trelawney 72 90-5 256 Wh.Tremaine(St.Ervan) 42 25
10000 Hibernian 121 11 239 Hobb's Hid 6 3	260 Wheal Trelawney 72. 90-5
	256 Wh.Tremaine(St.Ervan) 41 20 256 Wheal Tremayne 35 25
1048 Lamnerboo Wil. Maria II	128 Wheal Trew 20 21 256 Wheal Trevenna 3 4
100 Levant	92 Wheal Tryphena140 265
1000 Lewis 15 61 1000 Llwyn Malees 8	256 Wheal Vlow (Perranz.)
256 Lostwithiol Consols 15 15	256 Wheal Tremayne 35 25 128 Wheal Trew 20 21 256 Wheal Trevenna 3 4 92 Wheal Tryphena 40 265 128 Wheal Veliand 134 4 256 Wheal Veliand 134 4 184 Wheal Vyvyan 60 256 Wheal Williams 6 12
6000 Marke Valley 10 3 5000 Mendip Hills 21 11	Contract and other parameters and produced to
5000 Merionethshire Slate 2	FOREIGN MINES.
& Slate Slab Co	5000 Alten Mining Company 144
128 North Fowey Consols 30 30 100 North Pool 45 . 370	10000 Amelo-Mayleen Co 100 9 1
70 North Roskear 101 310	12374 Ditto Subscription 25 24 3000 Bolanos
256 North Wh. Abraham 1 1 262 North Wh. Leisure 1 2	2000 Ditto Scrip 15 35
128 North Wh. Providence 24 3 15000 Northern Coal Co 23 . 2	10000 Cobre Copper Co 40 18
128 North Wil. Providence 29 3 5000 Northern Coal Co 23 2 2128 Par Cousols 9900 1000 4000 Pennant 14 24 100 Penrhiw 30 65 1260 Perran St. George Ui 13 20 128 Perran Wh. Virgin 94 15 12 Piynouth Wh. Teoland 4 21 256 Polsatth Consols 44 7 112 Providence Mines 35 45	10000 Cobre Copper Co
100 Penrhiw 30 65	10000 Copiapo Mining Co 14 24 10000 General Mining Ass'n 20 . 13-14
128 Perran Wh. Virgin 94 15	
256 Polsaith Consols 4 7	2005 Mexican Company 59 12 2000 Mexican & South Amer. 7 12 5000 Mocaubas & Cocaes 30 6
112 Providence Mines 35 45 10000 Rhymney Iron: 50 20	29320 { Rl.del Monte, regis. } 284 11
256 Rose Consols 10 2	Ditto Red Debentures 10
10000 Rhymney Iron 50 20 10000 Ditto New 7 61 236 Rose Consols 10 2 1000 Rosewall Hill 1 5 256 Rosewarva Mines 12	Ditto Black ditto 8 Ditto Loan Notes 150 60

| 256 | Rosswarva Mines | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ...

91-10 1000 Scottiss Invess. Co... 15 50 500 Wakefield ... 3

8 South Para ... 15 50 500 Wakefield ... 3

We should feel greatly obliged by agents, or others interested, furnishing as with such corrections for our Share List as we may not have received through our sund channels of information—our object being, to present as accurate a list of prices as can be obtained—to procure which, we solicit the aid of correspondents in general.

MISCELLANEOUS COMPANIES.

Shares.	Companies.	9. 1		Div. p. cent.	Price.
10,000	Assam Tea Company		£20	, T	. £ 3
1,080	Auction Mart		-	£ 1	
10,000	Australian Agricultural		. 30	1	. 29
10,000	Australian Trust		30		
	British Alkali			4	
10,000	British American Land		354		14
	British Rock and Patent Salt			18	. 11
8,915	Canada	*****	321	6 31	294 304
S. 100 To.	Canada			31	89
1.800	Corn Exchange		374		
5,000	Droitwich Patent Salt		25	1	
2,700	Equitable Reversionary		95	41	
	General Reversionary Interest	** ** **	100		
	General Steam Navigation			16	
37.03-29	Hudson's Bay Stock			10	230 240
2,100	Hungerford Market			4	
1,500	London Commercial Sale Rooms			11	
8,000	London Reversionary				
	Margate Pier			10	
10,000	Mexican and South American		7		31 4
20,000	New Brunswick		75		100
11,600	Peninsular and Oriental Steam			7	59
	Ditto				11/2
5,387	Reversionary Interest Society			414	
	Royal Mail Steam			5	53 53
8,000	South Australian		25	6	Carry Co.
20,000	Upper Canada		100	0	93 94
20,000	Ditto		-	8	93 94
10.000	Van Diemen's Land	2000 42	90		CONTRACTOR OF

LATEST CURRENT PRICES OF METALS

	LONDON, DECL	EMBER 10, 1847.	2 mg 1 mg 1 mg
Inon -Bar a. Wales - fon London	7 18-8 0 0 0 0-8 15 0 0 0-10 0 6	COPPER—Ord. bottoms YELLOW METALSHEATHING TIN—Com. blocks g. suf. , bars	0 0-0 0 11
Weish cold-blast?	10 5-10 10 0	Refined	4 1-4 2 6 0 0-4 4 6
Ruils, average Chairs Russian, CCNDc	0 0 - 7 10 0	Coke, IC	1 3-1 4 6 1 9-1 10 6 0 0-19 0
. Steel, fagt.	0 0- 0 0-13 10 0 0 0-11 5 0 0 0-15 0 0	Spanish, in bd. Red Dry White	0 0-17 10 0 0 0-17 0 0 0 0-19 10 0
COPPER—Tile/ Tough cake Best selected	0 0-97 0 0 0 0-98 0 0 0 0 101 0 0	Sperres—(Cake) on spot 1 Zino—(Sheet) m expert.*	0 0-20 10 8 10-19 0 0 0-27 0
ordin. sheets, 76 a Discount 24 per cent. e In kegs 4 and 4-inch. in bond. b Discount 14 per cent.	b Net cash. Discount 3 per ent.	e Discount 2½ per ce cent. g Ditto 2½ per cent. 2 Ditto 2½ per cent. per cent. * For home use it	nt. d Ditte
To the Court of th	a conv. America de Cara	WITH DROUGHT SEG TO A 170 S KIND	77 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7

IRON.—Welch and Staffordshire continue at our last quotation, with a very great business—it is probable 74. 10a. would be taken for cargoes of barsin Wales. Scotch pigs are still depressed, and may be had at a shade below prices of last week.—Copera, Tim-Plates, and Lead, remain precisely as last reported.—In Serties an improvement has taken place, and it is now at 194 sellers, and 184, buyers.

GLASGOW.—The business done this week in pig-iron has been to a very limited extent. The depression in this trade which previously existed, has been much augmented by the failure of the Ayrshire iron Company—an extensive joint-stock company, recently formed. Notwithstanding this, prices are well maintained, and to day may be quoted at 47s. to 48s. for prompt cash, and 48s. 6d. to 49s. for cash against bill of lading.—Dec. 9.

BIRMINGHAM.—The suspension of the various railway works, has at length produced its injurious effects upon the iron trade, and those engaged in it. The men engaged in producing the iron, and in the employ of several of the largust works in the neighbourhood of Dudley, have received notice of a reduction of 20 per cent. In their wages, it is understood, also, that it is the intention of the coalmasters to give notice of a reduction in the wages of the colliers 4s., and those of the stonemen 2s 9d. per day. In addition to this, "short lime" is now the order of the day throughout South Staffordshire, and many of the ironmasters have resolved tipon auspending operations altogether at present. A meeting of those engaged in the trade was held at Wolverinampton, on Wednesday, when it was resolved also to reduce the wages of the unen in that district, so that the thing will be general in the course of another fortnight.—December 10.

LEAD ORES.

TICKETINGS FOR ABOUT 75 TONS LAKEY LEAD ORE.

Douglas, Isle of Man, Dec. 4.

Walker, Parker and Co. (purchasers)	Price 1	per Ton.
Walker, Parker and Co. (purchasers)	£17	15 6
Benjamin Somers	17	11 0
Mather and Co		
Newton, Kentes, and Co	16	10 0
Sims, Willyams, and Co	16	4 0
J. T. Treffry	15	2 6
Tamar Smelting Company	15	2 0
TICRETINGS FOR ABOUT 50 TORS (20 cwts.) NEWTOWARD Douglas, Isle of Man, Dec. 4. Walker, Parker, and Co.—Chester Tamar Smelting Company—Devon.	£8	15 0
Sims, Willyams, and CoLlanelly	8	4 6
Benjamin Somers-Bristol	7	7 0
Newton, Keates, and CoLiverpool	7	15 6
Sold at Holywell, December 9, 1847.	us lavel	
Mines. Tons. Amount.	Purcha	
Maesyrewddn £9 5 0	Walker, Pa	arker, & C

Sims, Willyams, at Benjamin Somers-	mpany —Devon			7 7 0
ption, which aff chal s	Sold at Holywell,	December 9, 18	47.	us lavel
Mines.	Tons.	Amount.	die al	Purchasers.
Maesyrewddn	954	£9 5 0	****	Walker, Parker, & Co.
ditto	19	9 11 0		Mather and Co.
Coctia Llys	54	9 18 0		ditto
Milwr	4	10 0 0		Walker, Parker, & Co.
ditto	8	9 10 0	****	ditto
Hendre	85	9 10 6		Newton, Keates, & Co.
Parys Mine	32	9 12 6		
Pen-y-Henblas				
Fronfownog				
Deep Level				
Llangynog				Newton, Keates, & Co.
Barristown	29	12 13 0	** **	Mather & Co.
ditto	3	11 11 0		Newton, Keates, & Co
And the Control of th	Sold at Al	ervstwith.		VISUA MARKET CONTRACTOR
East Logylas	70	£9 6 0		Newton, Keates, & Co.
ditto	70	9 11 0	4.30	Sims & Co.
ment of the balloning of the last	Sold on th	10000	In The	of this age. A.
work and steam I have been did	100	e Mine.		D Makell & Con
East Rose	72	2012 0 0	1	ditto
ditto			****	ditto
ultio	and a could be an included a source	naloundinanion.		airto
The state of the s	Sold at Liske	ard, Dec. 7.		THE STATE OF THE S
Wheal Trelawney				
Mary Ann		18 17 0		Michell & Son.
when continue earlies uits	Sold in L	on don	oc his	CALL VARY INCOME. TO PROPERTY OF THE PARTY O
Wheal Adams	200000	£10 10 0	4.016	1 Traffer
ditto				Sime & Co.
	Sold at 1			The state of the s
Great Callestick Moors				
Great Charlest at College	Sold at H	Toluncell.	177.76	American Co.
Peel	110	10 1 0	SOAS	Walker, Parker, & Co.
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COPPER ORES.

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ditto 87 9 12 6	Wh. Tremayne 55 7 2 (
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ditto 62 ·· 3 9 0	Wh. Jane 43 3 2 6
ditto 54 4 4 6	ditto 21 2 12 (
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Par Consols 7 2 0	Wh. Rodney 44 4 10 6
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ditto 70 7 16 0	North Wh. Basset 27 4 9 (
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COMPANIES BY WHOM THE ORES WERE PURCHASED.		ĸ.
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Vivian and Sons 3761 13	0	
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LAST SALE	-Average Standard			
HADA DILLERY	-trainge Destinant	CONTRACTOR OF STREET	TELES HERE	22,220000

NO SALE on Thursday next, Dec. 16.
Copper ôres for sale on Thursday week, at A
la.—Devon Great Consols, Wheat Josish, Wharia, 1500—Treaweum 331—West Caradón 29
Wheat Friendship 290—Bedford United Mi
she 66—Wheat Gorland 24—Ting Tang Cosso

NOTICES TO CORRESPONDENTS.

- We should feel obliged to all pursers, capt lars of meetings, &c., of the mines wit earliest opportunity, that they may be pr
- LIFE ASSUBANCE.—We have received a long letter from Mr. A. Burt, repudiating the protensions of Mr. R. Bullon (late secretary of the Tontine Life Assurance Company), as being the originator of the system of life assurance for the working classes. From our own knowledge, we can assort, that Mr. Burt was engaged maturing his plans long provious to his introduction to Mr. Bullen; and which plans were also submitted to Mr. Ansell, the actuary to the Afas Life Assurance Company, who computed the tables, anterior to their adoption, as the "People's Brauch" of the Tontine Company, where, we believe, Mr. Bullen become sequalated with them—consequently, his assertions, in his paper, "Life Assurance for the Masses," published in the Associat, are not based on fact, and are calculated to mislead the public, as to the originator of one of the most useful extensions of the system of life assurance.

 Am Gause.—The correspondent who imquired, in our last, for the sketch of an air gange, is referred to the description of Mr. Biram's Anemometer, in the Mining Journal of the 23d May, 1846.
- Tertius" (Durham).-We contemplate publishing a more detailed report of the matter
- . V. "(Exeter.)—The first paragraph in his letter is unintelligible; he does not nan is mine in which he bongin six shares for 2004, &c., and, therefore, we cannot que se price. The others mentioned have been attended to, and compared with Londorices; but we cannot quote his figures, business having been done here at the price van in our list.

 A. "—On the Ventilation of Mines, shall appear in next Journal.
- d-"G.A." (Paris).
- We must impress upon our correspondents, the necessity of invariably furnishing us with their names and addresses; not that their communications should, consequently, be noticed, but as an earness to us of their good faith.

 The Mining Jouanal is published at about Eleven o'clock on Saturday morning, et the office, 16, Fleet-street, and can be obtained, before Twelve, of all news agents, at the Royal Exchange, and other parts of London.

Glossary of Mining Cerms.

the month of January next, we intend publishing, as a Supplement, AN ENTIRE GLOS ART OF EXCLUSE AND FOREIGN MINING TEAMS.—Subscribers and others wishing for spices of the Number, had better forward their orders, through their agents, to pre-ent disappointment: the charge for the Journal and Supplement will be Skapence.

MINING JOURNAL Railway and Commercial Gagette.

LONDON, DECEMBER 11, 1847.

Throughout the week which is just concluded, we have enjoyed a happy exemption from that excitement, which had recently spread itself through all the commercial circles of the kingdom. We have had a season of rest, by which the mercantile genius of the community will be inspired with fresh confidence, and its energies recruited with additional strength. Besides the advantages of this hopeful repose, there are several new circumstances which increase the amount of our satisfaction. First, the well-sustained influx of the precious metals into the bosom of the metropolis—the consequent case and relaxation of that tightened bowstring, the money market—and the commarative facility with which accommodation can be amount of our satisfaction. First, the well-sustained influx of the precious metals into the bosom of the metropolis—the consequent ease and relaxation of that tightened bowstring, the money market—and the comparative facility with which accommodation can be obtained; the lowering of the Bank of England discounts to 6 percent, and the prospect that, before New Year's day, the price of money will be lower still: add to this a gradual climbing up of the public funds—Consols, which in the last days of October were 79, are now at 86, and at that price very stiff, and still moving up—that is, as a whole, money cheapening, the public securities improving, and the great bullion depository of the empire again growing plethoric. If this were some of the last seemes of a pastoral drama, we should think it an appropriate time to introduce the chorus, with one of the voices saying—the winter is over, the valleys and the bill side are filling with fruits and pasturage, and the time of the singing of birds is at hand. But increased ease is not increased wealth; what the last few weeks have been chiefly doing for us, was to place our capital in an accessible and a visible situation. There is less room now for the relaxation of our efforts, as a working people, than ever—the clink of our hammers must still be heard ringing through the land—the motion of our looms and shuttles must still be the great domestic spectacle we present to the world—our merchant flags must continue to flutter in, and to ride through, every breeze—our keels furrowing every sea—this is necessary to meet the multitude of our annual obligations to pay; and further necessary, that we may keep our place as the great merchant nation of the world, and fulfil our mission as the chief civilising power of the age. We are bold to say, that we should give all, and more, than the usual attention to the increase of our mining produce; among the crowd of other duties, and the claims of other branches of industry, there is none more worthy of fostering care and dilige

In the MINING JOURNAL of the 6th ult., we laid before our readers In the Mining Journal of the 6th ult., we laid before our readers, to the extent which our means of information enabled us, the exact position of the Swansea Dock Company—more particularly to the relative bearing of the two boards of directors—the London and the Swansea—now, unfortunately, placed in antagonism with each other—a situation which must prove highly detrimental to the interests of the shareholders at large, and to the proper development of the works. On Thursday week an extraordinary meeting of proprietors was held at Swansea—the resolutions passed at which appeared in our columns of last week—among which was one for the appointment of a committee, consisting of Messrs. Vivian, Richardson, Leach, Eaton, Tripp, and Major Philipps, to take into consideration the differences which have arisen, and to ascertain if an anticable adjustment of these differences could not be effected. Notwithstanding this apparently pacific step on the part of the Swansea withstanding this apparently pacific step on the part of the Swansea proprietary (for Colonel and Mr. N. P. Cameron were the only persons representing the London holders present), and the necessity and importance of unanimity in such an undertaking, we cannot avoid feeling that a spirit of opposition and exclusiveness appeared to prevail, which all the exertions of a committee, however anxiously to prevail, which all the exertions of a committee, however anxiously applied, and well directed, will not be able easily to quell. The Charman, in opening the business, regretted exceedingly the necessity of convening the meeting; but the Swansea directors were anxions to render every explanation in their power, in order that all the facts relative to the late disastrors differences might be laid before the shareholders: he then alluded to the late meetings, and stated that the opinion of Sir F. Thesiger had been taken; and that opinion was, that the Loudon meeting, held the day previously to the one at Swansea, was illegal. He then referred to a pamphlet, extensively circulated in Swansea, containing a report of the Loudon meeting, and charging him (Captain M.), "that at a meeting of the London board, at which he presided, the minutes of the meeting were taken by him down to Swansea, when it was found he had made alterations and additious to the same:" he emphatically denied it, and Mr. Francis bore testimony that no such alteration had ever taken place. Mr. Jenning, the Swansea solicitor, rose to explain mother charge which had been made—viz., the substitution of the word may for shall, in the Bill when going through the Lords' Committee. He declared that there was not a word said about the Lond. will not

don shareholders having any thing to do with the management; after going into committee, to his great surprise, it was found the clause had been altered from the original, which allowed the meetings to be arranged, and courined them to London alone; he, as the company's legal adviser, instructed the Parliamentary agent to put in the word may, so as to leave it to the choice of the shareholders; he fearlessly took upon himself the responsibility of the alteration. Colonel Caurnox addressed the meeting at considerable length; he asked if the directors intended to keep faith with the London shareholders, or proceed, in defiance of all honour; he had acted all along with the greatest assiduity: it was well known, that when they had the greatest difficulty in getting rid of their shares, he took 900—they were paid upon, and the deposit in the bank; with respect to the opinion of Sir F. Therstona, he ridiculed it, and said he had taken that of Mr. Lloyd, which was quite opposed to it, and whose opinion, he believed, was to be fully depended upon; he wished to know if the Swansea directors were prepared to reimburse himself and friends, and relieve them from all future responsibility? he felt sure, however, that if the management were left to a London board, the project would be carried out; he was prepared to lay out 1500L in shares at once. Having urged the propriety and importance of the meeting coming to an express resolution, embodying the opinious of the very large body of shareholders then present, as to whether the management should be conducted at Swansca or in London, he trusted they would not separate without a resolution on the subject. Mr. Taire immediately took up this challenge, and moved a substantive resolution, that the management be in Swansca, which was immediately carried unanimously. The meeting stands adjourned to Thursday, the 23d inst.; and, in the mean time, it must be left for the committee to use their best endeavours to allay the present irritation, and bring about a good understanding bet don shareholders having any thing to do with the man-

The seventh annual meeting of the Peninsular and Oriental Steam Navigation Company was held on Wednesday last, a full report of which will be found in our columns. This powerful association, composed of the wealth and influence of the merchant princes of England, which has opened up such extensive facilities for communication with our important possessions in India, and, still more distant, China, is progressing most satisfactorily, and still establishing new routes, for the purpose of meeting the increasing wants of the public, and the growing importance of our extensive colonial possessions in the East. It will be seen by the report, that an additional capital of half a million sterling is about to be raised, for the purpose of extending operations in the East; that, in all probability, a line of communication will be established with Anstralia, under contract with the Government, for the conveyance of the lia, under contract with the Government, for the conveyance of the mails between those colonies and the mother country, and which is to be effected by stated voyages from Singapore to Sydney—a route at present almost totally unfrequented, but which, with Government

present almost totally unfrequented, but which, with Government aid, it is expected would be rendered profitable. Such an establishment would be of the utmost advantage to the rising colonies of New Holland, as tending to open new and extensive markets for their agricultural and mineral produce, and the supplying, with greater facility, many articles of merchandisc which they now import. The financial statement, it will be seen, is highly satisfactory—a dividend, for the whole year, being paid of 8 per cent., free of income-tax, with large reserves, in the shape of "depreciation" and "insurance" funds, and the ordinary reserve fund, preparing them for any casualties to their vessels, without a fear of being obliged to encroach apon the capital. Upon the whole, it would appear, that this important company was never in a more prosperous state; that this important company was never in a more prosperous state and their present position, with the vastly extended undertaking now under consideration, undoubtedly stamps it as the greatest undertaking for a company of private merchants, ever established in the history of the civilised world.

PRODUCTION OF COPPER IN AMERICA.

The following statement of the mineral agent of Lake Superior, for the pre-mt season, and to Oct. 1, gives the quantity of ores and metals raised and shipped out of the district, for smelting, from the co

1	Ores and	metal raise	d. Amo	
ï	Lake Superior Companylbs.	1,114,841		
И	Eagle Harbour Company	321,000		81,164
١	Copper Falls Company			
П	Pittsburg and Boston Copper Harbour Company ?	,283,340 .		
	North-west Company		* * * * * * * * * * * * * * * * * * * *	
	Lac La Belle Company			
	Suffolk Company		********	
	Algonquin Company			11,135
	Bohemla Company			4,049
	All others making reports 1	,327,969 .		40,206
ı	March 1967 of the control of the con			

This leaves a balance of 3813 tons of mineral to be smelted in the district There were four smelting-works being erected, and which will be ready fo operation next season. We should like to hear what the copper protectionists will say to this; and whether, with the produce of 8,500,000 lbs. of ore, probably 1800 tons of fire copper being poured into European markets, they are still prepared to say, it would be policy for us to shut our doors against the admission of foreign copper ore.

FRENCH STEAM NAVIGATION IN THE INDIAN SEAS.—There has long been an anxious feeling on the part of French Governments, as well as the nation generally, to establish a regular steam navigation in the Indian seas, to compete, if possible, with the present predominance of British commercein that quarter of the globe. The long-wished-for project of cutting a canal across the Isthmus of Suez, the principal construction of which the French engineers were congratulating themselves would be left in their hands, having been given up—Mehemet Alı being convinced of its impracticability—another scheme has emanated from our versatile neighbours across the Channel. Nothing daunted by this failure, the Government appear decided, at least, to make the attempt to establish a regular communication by steam between the Isle of Bourbon (one of their richest colonies) and the port of Suez. Fora long time past the principal inhabitants of the colony have expressed a desire to see a line of steamers established; and the Colonial Council has, on various occasions, occupied itself with this important question, and voted the sum of 3000L to any company who should first carry out the project. The Chambers of Commerce of the principal ports of France have been consulted, and applications made to several companies in India and London, but none came forward to second the proposed undertaking, or risk the outlay. The Ministerial organ of France, the Journal des Debats, says, that "the Minister of Marine, the Duke de Montobello, has thought that in an affair of this importance, and which may have such good results on the commerce of France, it belonged to his department to give the first impulse. Accordingly, it has charged itself to find out the most practicable route, risks the dangers, if there are any, is ready to meet the expense, and the difficulties inseparable from a first trial. Two steam-ressels, of 220-horse power, are to be added to the naval station of Bourbon—the Causinia shought to leave for that island, and another steamer will is about to leave for this island, and such extracted with such a to realise the so long anxiously desired project—a regular communication between Bourbon and Sucz." That such communication, when once established will be of immense importance to the commerce of France, there cannot be a doubt; the great, and, perhaps, the only, difficulty which they will knew to encounter—and it will be no trifle—will be a regular supply of fuel.

A CHARACTER.—Lately died in London, William Anthony, Esq., one of the most remarkable men of his day. He was of a very ingenious turn of mind, and effected many improvements in watchmaking, and other mechanisms: 30 years ago he joined in a patent for the application of steam-power to passenger vessels in the Thames. In 1823, he, singly, resisted an attack of burglars on his hense, where he had a consignment worth 2000L of watches for exportation. In 1825 (the bubble year), he engaged in many of the schemes then afficat, and lost considerably; but his love of speculation still led him to invest large sums in exhibitions in the metropolis, and in chemical works in Clerkensell. He was also one of the earliest shareholders in the Manchester and Liverpool line; but his speculations resulted in great losses. He was engaged for nearly 20 years in a disputed reference of partnership accounts, which cost him above 30,000L. He has left some freehold property to "his nearest of blood, claiming within 12 months," and in default of nearer, then to his first cousin's son, Mr. Charles Nash. dming within 12 me

J IMPROVEMENTS IN THE MANUFACTURE OF IRON. of patent granted to Reginald James Blewitt, of Lia

[Specification of patent granted to Regimind James Blewitt, of Liantaranan Abbey, Neorit, Esq., for improvements in the manufacture of malleable iron.—Patent dated that of May, 1947.]

It will be known to most of the readers of this Journal, that the use port. Log., for improvements in the manufacture of maleanic non.—Patent and up 27th of 1895, 1847.]

It will be known to most of the readers of this Journal, that the usual mode of preparing pig or cast-from for the malleable cast-from, is by melting it, or by mixing together and melting different qualities of pig or castiron, with coke in furnaces, called refineries, and keeping such from there in a state of tusion, exposed to a great heat, and to a strong blast; and the produce of this operation, run into moulds, is called refined iron, or metal plate. The patentee uses this, either alone, or mixed with different qualities of pig or cast-iron, in the puddling-furnace, and subjects it to the after process of puddling, by which it is brought into the first state of maleability. He states, he has discovered that a botter quality of refined iron, or metal, may be obtained from an air furnace—such as is commonly used for casting, or foundry purposes—than from the refinery, by which there is less waste of metal, and less expense of fuel, in the manufacture. He lights and heats an air-furnace in the usual manner. For each charge he puts in about foat tons of pig or cast-iron, of such qualities as the manufacturer may think most desirable to produce the required quality of malleable iron, as has hitherto been the practice in using refinery furnaces; and the charge, when fully melted and mingled together at the bottom of the furnace, is run into sand, or iron moulds, of any convenient size, and then subjected to the after process of puddling, which he conducts as if using refined metal produced from ordinary refinery furnaces. The fuel he employs for heating the air furnace is a white-ash, semi-biturninous coal of excellent quality, to which, he states, may be added, with good effect, I or 2 cwts, of charcoal to each charge; but he does not confine himself to this description of fuel. The patentee does not claim the use of soundry air furnace for furnace, nor the running of iron into sand or iron moulds, nor any parti

STUPENDOUS IRON BRIDGE IN RUSSIA.—A contract having been entered into between the Imperial Russian Government and Mr. Vignoles, the engineer, of Trafalgar-square, for the construction of an iron suspension-bridge over the river Dnieper, as Kieff, the first shipment of machines and iron-work to be used in its construction, was made at Liverpool a few days since in the British barque Flirt, Mr. A. Dove, master. Our readers are aware, that the Dnieper follows a course of about 800 miles through the Russian dominions, before emptying itself into the Black Sea. With the exception of about 40 miles, where it is uninterrupted by cataracta, it is perfectly navigable. The articles shipped consist of various massive pieces of iron, of prepared forms, the packages being numbered from I to 320, and weighing, in the aggregate, 274 tons. They consist of sheeting pile, and foundation pile weights, 5-in. diameter shafts and couplings, cylindrical pieces and stands, with bolted pedestals, besides 14 cases of bolts and nuts. They have been prepared at a foundry at Bolton, and are consigned to the house of Messrs. Raffalowicz and Co., of Odessa, from whence they will have to be carried in carts, drawn by bullocks, 400 miles, to Kieff.

and nuts. They have been prepared at a foundry at Bolton, and are consigned to the house of Mesers. Raffalowicz and Co., of Odessa, from whence they will have to be carried in carts, drawn by bullocks, 400 miles, to Kieff.

IMPORTATION OF RAILWAY INON FROM NEW YORK.—Several somewhat singular cargoes have arrived from America during the week, being no less than some hundred tons of railway iron; but whether of American make, or a reconsignment of British iron to England, is not stated in the bills of lading. Higherton, in addition to all that could be made in America, large quantities, have been imported from England; nor is it to be expected, that America will, for years, be able to supply even her own requirements in the formation of her projected railways, much less become generally an exporting country; the fact is, large contracts have been entered into with an American house, for a large supply of iron for railway purposes, &c., for Russia. The ship New World, in addition to a large cargo of general provisions, brought 149 tons of front, the John R. Skieldy also, in addition to large quantities of provisions, has en board 682 tens of railway iron. Several other arrivals have taken place, and more are expected; it is said they are all consigned to order for Russia.

Whet LARE M. HALLETIT'S ENTABLISHENT AT ARRAS.—We have been informed that, in consequence of there having been no bidding above the upset price of 1,000,000 fr. (40,000L), when this property was affered for sale on the lith of Nov., it is to be carried on by a private company of capitalists, whose co-operation has been secured by the family. We shall, in a future Number, have an opportunity of describing more fully the organisation under the new management, in which, we understand, several oppolent English capitalists are to take an active part. Situated as it is, on the forest Northern Railway, from Paris to the fronthers of Belgium, it may be considered one of the first foundation of the supplemental states of the propers of the stone of the p

deen line will be opened.

CALEDONIAN HAILWAY.—The operations on this line are in a state of great forwardness, and its speedy opening for the purpose of fraffle is confidently expected. In Edinburgh, the line having been successfully carried beneath the houses at Gardner's-crescent and Romilly-place, preparations are actively going forward for laying the permanent rails at those points, to which the line has nearly been completed. At Dalry, the road has been diverted for a short distance, and the bridge across the railway is scarcely half finished; but, from the number of men employed, it cannot materially retard the opening of the line. At this point the engine-shed is to be stationed, and considerable progress has already been made in its construction. The viaducts at Stateford and Linhonse Water are now completed, and the state of the line generally is such as to refi-

Water are now completed, and the state of the line generally is such as a function of it probable that it will be ready for traffic in the ccurse of a few weeks.

BIRMINGHAM, WOLVERHAMPTON, AND DUDLEY RAILWAY.—The spirited contractors for the construction of a portion of this line, Mesars. Frost and Bates, have commenced the works on their contract, which commences at West Bromwich, runs through Bilston to Priestfield, and there joins the Oxford and Worcester line. The first brick was laid on Monday last, by Mr. Samuel Frost, C.E., in the presence of the engineers of the company and other gentlemen, together with a large number of the inhabitants of the town of Bilston, who look upon this line as an important undertaking in a commercial point of view, and also as one which will afford employment through the winter to a large number of hands, who have hitherto been unemployed.—Wolverhampton Chronicis Lowdon. Brighton, and South Coast.—The branch line from Lewee to

LONDON, BRIGHTON, AND SOUTH COAST.—The branch line from L. Newhaven was opened on Monday. Only one up and one down train will carry passengers during the winter.

It is stated that Mr. Brunel, the eminent engineer, has purchased us of 70 acres of land, in the neighbourhood of St. Mary's Church, near Te and is about to creek a mansion for his residence.

The corporation of Swansea, where the British Scientific Associasemble next year, have most liberally voted 500/, towards the fividing for their accommodation and entertainment.

至3年间在5月75

PROGRESS OF FRENCH MINING INDUSTRY.

Mention was made in my last of the formation of two companies—one for renting and carrying on the iron-works of Toga, &c., in Corsica; the other, for advancing money on mortgage of the works and their dependen-cies. These iron-works were formed in 1835, with a capital of 2,000,000 fr., which they swallowed up; and a further sum of 1,500,000 fr. was also

other, for advancing money on mortgage of the works and their dependencies. These iron-works were formed in 1835, with a capital of 2,000,000 fr., which they swallowed up; and a further sum of 1,500,000 fr. was also raised sometime ago. The money to be advanced by the two new companies is 1,600,000 fr. Adding these totals together, we find that the Toga Iron-Works have taken, and propose to take, no less a sum than 204,000 f. That this great outlay has not produced satisfactory results to the shareholders is clear from the fact, that money is now wanted.

The Belgian papers make reference to the fact, mentioned in my last, with respect to the formation of a port at Marseilles, and the manner in which it may be expected to facilitate the introduction of English coal into France, and even to Paris; and they exhort the coalowners of Belgian not to lose sight of it, so that they may profit by it. One cannot quarrel with the Belgian journals for manifesting this concern for the interests of their country, but let the English hearn from it the lesson, that they really must exert themselves to keep possession of, and to extend, the market which France presents to their products. Belgium, at present, sends a greater quantity of coal and iron to France than England. In 1845, for example, she sout 13,961,664 met, quin, of coal-whilst England only sent 5,057,489; and, in the same year, she sent 295,709 met, quin. of cast-fron—the importation from England being only 292,262; and it is not in France alone that she outstrips us in these descriptions of exports—in fact, in some foreign markets, which a few years ago we had all to ourselves, she is now the principal seller; and, in others, she presses us very hard. Yet, not content with what she has, she is moving heaven and earth to increase her exports. Your readers, then, I repeat, must be up and stirring. They have got an active, enterprising opponent which is already formal market, which years and the fact, and the summary of the product of the country and the second prov

enter into detail, when I shall have concluded inquiries which I am now making.

The imports of copper made into this country, during the month of Oct. last, have been 2125 metrical quintals from England, 2019 from Chili, 3420 from other countries—total, 7636. Of cast-iron, during the same month, the imports were 18,567 from England, 44,653 from Belgium, 5537 from other places. Of coal, the imports were 1,594,542 met. quin. from Belgium, 596,788 from England, 213,260 from the Zollverein, 58,784 from other places. The import of lead was 47,435; of zinc, 10,728; of tin, 2635.

67,344 59,949 82,442 12,599 245,387 795,018 671,186 451,652 4,873,933 12,017,779 1,660,317 33,434 5,666,201 9,852,095 1,470,196 442 5,229,413 11,160,039 1,586,073 308 48,585,463 16,988,934 252,551 191,707 134,723 84,700 118,690

Zinc 194,776 ... 292,561 ... 191,767
Zinc 194,723 ... 84,700 ... 118,690
As a set off to all these imports, France can only boast of an export of between 20,0001, and 30,0001, worth of machinery in each year. Compared with last year, it will be seen, that the imports from England have decreased. On the 30th, the Minister of Marine will receive contracts for about 30 tons of copper, and 111 tons of sheet-iron, for Nantes.

The St. Dizier letter of the 2d says, that the last decline announced has completely paralysed affairs. Affairs in fontes blanches are also very confined. One tot, of 200,000 to 300,000 kilogrammes, has been sold for 145 fr., delivered at St. Dizier. According to all appearances, the price of that article will further decline. At Bordeaux, copper for sheathing was very rare at the end of last month. For what was en douane (in the Custom-house), the last price was 220 fr.; and at 222 fr. 50 c. in the road-stead there would have been purchasers. Thoworks of Bastide can now, it is said, deliver copper at reasonable prices.

What I stated in my last, with respect to an arrangement being about to be effected between the General Company of the Loire and the consumers of St. Etienne, was substantially true. The affair has not, howover, yet been finally terminated. It appears that, before coming to a conclusion, the company is desirous of procuring a condemnation of some of its principal adversaries, on a charge of calumny, for which a prosecution is now in progress before the tribunal at Paris. This will give it the whiphand of its adversaries, and enable it to make concessions with a good grace.—Paris, Wednesday.

-The Belgian Government lately ordered a new system of BELGIUM stimating the value of exports and imports to be adopted. This system

estimating the value of exports and imports to be adopted. This system has been applied to the returns of the imports and exports of 1846; and in the report on the matter, which has been drawn up by the Minister of Finance, the following facts are stated:—

The consumption of articles imported from England has been on the decline since 1842, although the exports to England have increased. There was an increase in the import of sopper, but a decline in that of lead, ironware, machines, &c. The exports in 1846 were 1,350,000 tons of soal, of the value of 18,250,000 fr.; 52,000 tons of cast-iron, 2,800,000 kilos, of machines, 4770 tons of nails, &c.

The Minister of Foreign Affairs has written to the Chamber of Commerce of Antwerp, to say that the Belgian Consul of Manilla has written to recommend that vessels proceeding there shall take out coal instead of ballast. The recommendation may be valuable to English vessels, as well as Belgian,

ballast. The recommendation may use the ballast the ballast seek to the ballast seek to the preprietors of coal-pits for the payment of wages, &c. The sudden coastion of such advances must have been severely felt, and some surprisessation of such advances must have been severely felt, and some surprisessation of such advances must have been severely felt, and some surprisessation of such advances must have been severely felt, and some surprisessation of such advances must have been severely felt, and some surprisessation of such advances must have been severely felt, and some surprisessation of such advances must have been severely felt, and some surprisessations.

has been expressed that it has not already occasioned very serious disasters. No public notification has yet been given of the course which the Government will pursue; but the general belief appears to be, that it will not think itself warranted in adopting any peculiar measures for the relief of the coalowners, lest it should be constrained to extend them to other branches of industry, which are at present suffering most grievously from the commercial crisis that, after ravaging England, has visited Belgium. Some idea of the general distress which exists may be formed, from the fact that the shares in an enterprise, for which the Municipality of Brussels has guaranteed an interest of at least 5 per cent., which was likely to produce double or treble that amount, and the capital of which is secured by mortgage on a number of valuable houses, have actually been sold within the last few days at 36 per cent, less than they cost a few weeks ago, and there was even a difficulty of finding purchasers at that rate!

REDUCTION OF COPPEE ORES BY ELECTRICITY.—We commenced a description, in our last Number, of the experiments of MM. Rivot and Philipps, on which a commission, under the French Government, had reported; we now continue their own description. Their next experiment was a mixture of roasted ores, lime, or sand, placed in a well-heated ment was a mixture of roasted ores, lime, or sand, placed in a well-heated reverberatory furnace, with the scorise of a previous operation, in such quantity, as would best premote the fusion of the mass, and of charecal, or coal, in sufficient proportion. When charged, two or three shovelsful of small coals were added, to keep the mass from being oxidised by the flames of the furnace—the whole being wollstirred, from time to time, in order that it might heat more uniformly. When thoroughly melted, six bars of iron, weighing together from 36 to 45 kilos., are plunged into the metal, some more small coal is thrown in, to prevent peroxidation; and the mass is stirred well every half-hour with rakes, having two prongs, which are very useful for removing the scorize from the surface of the iron. A wooden pole is also plunged in, which gives off a considerable quantity of gas, and produces a strong frothing and ebullition. From three to four hours' action of these bars are sufficient to reduce the scorize to a state, in which it contains only about 0.004 to 0.009 per cent. of copper. From pyritic ores, free from arsenic, a very pure black copper has been always obtained, containing only from Tabuth to Tabush of Sulphur and iron. It is necessary, that the roasting should be well done, as there will then be no slag on the copper. Attention must also be paid to temperature, as at a red-heat a pure copper has been obtained, while at a bright red-heat, it has contained 3 per cent. of iron. In their Report, MM. Duffenoy and Pelouze reported to the Academy of Sciences, that iron acts on several metallic silicates in fusion at a red-heat, in the same way as at a low temperature, in the solutions of those metals. That the iron, plunged into a triple silicate of copper, lime, and oses qui-oxide of iron, does not precipitate the smallest quantity of copper, before all the sesqui-oxide has been reduced to its minimum of oxidation—whence the conclusion, that the iron introduced into a fuse of iron, of line, and of copper (not mee reverberatory furnace, with the scorize of a previous operation, in such quantity, as would best promote the fusion of the mass, and of charcoal

PETTIT'S APPARATUS FOR COMMUNICATION BETWEEN GUARD AND DRIVER.—This plan was brought before the public as long since as 1841; but the question having now become one of such considerable importance fresh prospectuses have been issued for circulation. The plan consists of a powerful steam whistle, placed near the driver—tubes are conducted a powerful steam whistle, placed near the driver—tubes are conducted along all the carriages of a trait, in which are the bell-wires, which are coupled together at the union of every carriage with the following—which wire is fixed to a winch, by which the guard cancause instantaneous motion to be given to the whistle, which calls the attention of the driver that something issamiss, and causeshim to stop the train. No person except the guard can open the whistle, and none but the engine-driver can close it; but there is an arrangement, by which the plassengers can open the whistle, in case of sudden indisposition, or other emergency. We have been induced to notice this invention, more from the manner in which the inventor has been treated, than from observing anything new, or particularly meritorious, in it. It appears, that as long sizes as May, 1840, the patentee, feeling that it was indispensably necessary, for the proper security of railway travellers, spent about 800. In maturing his invention, and constructing and perfecting the apparatus, which he got permission to fit up on a train on the London and Birmingham Railway, and it was held ont, that he should receive their patronage and support. After having fully tested the practicability and mility of his plan, the directors declined to entertain it, under the plea, that his demand for licenses under the patent were unreasonable. Disappointed in hopes, and disheartened at finding so much apathy prevail on a subject of such importance, he declined deveting further attention to the subject appears to be one causing universal interest.

Hydrostatic Turks-Table, —Mr. Allan, of Crew, has taken out a pa-tent for a turn-table for railways, in which he employs the hydrostatic pressure of fluids, for the purpose of supporting the superincambent weight. These tables are constructed of wrought-iron plates—the necessary strength and stability being given by numerous vertical ribs of wrought-iron plates and stability being given by numerous vertical ribs of wrought-iron plates, attached by angle-irons, to the lower edges of which are also firmly attached, by angle-irons, bottom and circular sides, also of wrought-iron plate—thus forming a hollow water-tight box. This hollow platform is supported in the turn-table pit, or reservoir, by the pit being filled with water, or other fluid, and revolves on a central fixed pillar, around which is a projection, on which run a series of friction rollers. The turn-table pit, or reservoir, is filled with water, or other fluid, just sufficient to sustain, without any deflection of the platform, the maximum weight of the locomotive engine, or carriage, which may, at any time, pass over the turn-table. The height of the surface of the water in the pit being once ascertained, and adjusted proportionably with the maximum weight, it is then constantly maintained by a ball-cock, attached to a supply-pipe, from a sistern above. On the platform are three separate lines of rails abreast, and these are crossed at right angles by three other sets of lines, by which means one turn-table is sufficient to perform the work, and effect the transfer of a locomotive engine, or carriage, from one to the other line—for which with turn-tables as usually constructed and arranged three. transfer of a locomotive engine, or carriage, from one to the other line—
for which, with turn-tables as usually constructed and arranged, two are
requised; the new one is also worked with considerable economy. The
pit, or reservoir, is formed of masonry, or bricks, laid in cement, watertight, having a sufficiently firm and stable foundation, on which the centre
pillar can be properly supported—the object of which, and the friction
rollers, being to reduce to a minimum of the friction caused by the upward
pressure of the platform upon the plate, or head, of the centres pillar. A
cast-iron kirb is fixed on the top of the sides of the reservoir, being cast in
segments, and bolted together—the circular edge of which is brought in
contact with the outer edge of the platform, which thus revolves flush with
it. By the arrangement of the rails, as adopted by the patentee, a locomotive augine, se carriage, may be transferred from one line of rails to
another, by a semi-revolution of the turn-table.

The following gentlemen, representing the freighters using the roads of the Monmouthshire Canal Company—Mesars. Thomas Brown (of the Ebbw Vale Iron-works), W.m. Routh (of the New British Iron-works), W.S. Cartwright, Martin Morrison, and James Brown, attended by Mr. W. W. Secretan Woodhouse (solicitor)—had an interview, on Monday last, at the Railway Board of Trade, Whitehall, with the Right Hon. E. Straut, M.P., Sir E. Ryan, and Major Brandreth. The deputation, we understand, were well secenced, and are much gratified with the result of the interview.

Original Correspondence.

MINING IN CORNWALL.

Sing.—In my last, I mansioned the mining district, extending from the flat ground, between the Mounts Bay, to St. Ires, about six miles ease, to join the granite. It will now presume giving an outline of the mines astending on and in the granite, from Breage around the granite hills, through Gwennap and Stithians, a length together about 30 miles, containing Great Wheal Vor and Poladeras Downs, Great Work, and several other mines, all rich for tin, and Godolphin, formerly rich for copper, Wheal Creaver, and Wheal Abraham, mentioned in a former lester, on to Dolecath, Cook's Kitchen, Tincroft, Stray Park, North and South Roskear, the Pool Mine, and others, on through Gwennap and Stithians; mention will be made of only a few of them. Wheal Vor and Poladeras Downs, the greatest itn mine in the world, is worked parily in clay-slate, and partly in granite, to 350 or 300 fms. deep, making a return, in the last 40 years, which I should estimate as 1,500,000.—perhaps, it may be 3,000,000. Leaving good profits. The Great Work Mine is similarly situated with regard to straft, and has been worked at a great depth, making great returns and profits. These mines are situated where deep mines might be looked for regarding strata, having the granite to the west and underneath it. This mine, previous to 1805, was very rich and profitable, worked from 60 to 80 fms. deep, and lay dormant, or unworked, from 1895, till about 1835, when it was again set in motion, and continued at work till within the last two years, and it is now abundoned, with some considerable loss. If the trials in the late working were effectually made to a proper depth, and westward, towards the granite, then this mine would appear to be an exception to all the great mines similarly situated. Cremver and Wheal Abraham were mentioned before as two of the deep mines. Doleoath, similarly situated, has been a work for centuries, making great returns and profits, and, I believe, is worked 300 or 350 fms. deep; it situated on the eastern sien o

MINING IN THE GREAT ORMESHEAD, LLANDUDNO.

MINING IN THE GREAT ORMESHEAD, LLANDUDNO.

SIR,—I have observed the remarks on "Traveller's" letter, in the Mining Journal of last week, by "W. W." (which I take to mean water-works), stating the new and old mines to have been commenced and worked without capital, and the profits from them to the lords and adventurers amounted to 300,000/a, and that the profit from Tygwyn, in 20 years, was 80,000/. That the whole returns from Tygwyn have not much exceeded 90,000/a, is an ascertained fact—whilst one-sixth, in shape of royalty, was paid—leaving a clear return to adventurers of about 75,000/l; the whole cost of working amounting to more than the returns, leaving the adventurers minus some considerable sum. The profit said to have arisen from the new and old mines, for the last 40 years, is erroneous. It is certainly a great deal mare than all the returns made during that period. "W. W.," after such statement, will certainly not object to give some data, showing how he arrived at such conclusion, as to induce him to put forward such statement. It is quite evident to me, that "W. W." has no basis on which his assertion is founded, and merely wrote in the heat of airy notions. It think your readers will at once see the strangeness of "W. W.'s" letter, where he states, the profits of both mines have not exceeded 30,000/l, appears to meclear—for I believe in no respect, or at no period, were the mines very rich; and the system of, working, allowing the men to take their proportions of ore out in the hine—the adventurer and miner both going to market to sell their produce—thereby incurring much expense to the men, and considerable loss of time from their work—all had a tendency to fesson the adventurer's profits. This is the system practised up to the present day, and it is in unison with all the other brunches of management. My object being to put forward nothing but the truth, and to get others to do the same—to undeceive those in mining who have already been too much imposed on by false statements—and ever anxious to

MINING IN CARDIGANSHIRE—CWMYSTWITH MINE

MINING IN CARDIGANSHIRE—CWMYSTWITH MINE.

Sir,—As it is not improbable that this old mine may again change hands, it may be interesting to your readers to have some account of its situation and prospects.—C-wayswith Mine is formed in a deep ravine, on the river Ystwith, 17 miles from Aberystwith. The river, for 10 miles from Aberystwith, flows through a valley, whose sides rise so gently as to allow of cultivation; and, in some of its wider openings, are interspersed some beautiful seats—among others, that of Crosswood, the mansion of the Earl of Lisburne. Proceeding from Aberystwith towards the mineral region, shortly after passing Crosswood, the character of the scenery changes—instead of a valley, the bed of the river becomes almost a chasm, continuing, in an eastern direction, for seven or eight miles. About a mile from the eastern end of this chasm, is situated the old and celebrated Cwmystwith Mine. The sides of the valley, at this point, stand up, almost like walls, for nearly 700 feet above the bed of the river. At the summit, the ground is level; and it is clear that this was the natural surface of the country, as, from the top, the whole appears comparatively level, and the edges on each side of the dingle seem to have been broken from each other, and as, if they were to be brought together, that they would fit, and again form a flat country.

The appearance of the mine is particularly between and deep the mineral particularly together, that they

would fit, and again form a flat country.

The appearance of the mine is particularly barren and desolate; and so straightened is the channel of the valley, that the wind always blows eastward, or westward, through it, changing to the side that forms less than a right angle with its course. It, perhaps, deserves to be remarked that, by following the river about a mile to the westward of the mine, the valley opens considerably, and we get a view of Hafiod—considered to be one of the most picturesque spots in Wales. The summer landscape here is the most charming that can be imagined, and is replete with wood, rock, mountain, cataract, and river—indeed, nothing can be more enchanting than the scenery of the Hafiod grounds. But, in contemplating the beartiful, we must not less sight of the useful. It is necessary to observe, that the vale of the Ysawith affords the only route for a railway from this part of the country to England. For the berefit of your railway friends, and engineering renders, I may state that the rise is a gradual one, by the line of the River Ystwith, from Aberystwith to the source of the Elan—a distance of 20 miles—the rise being 1 in 80. The Elan falls into the Wye, near Rhyader. From what I have stated, if will be seen that, to gain the summit level on a line from Aberystwith leading into England, a gradient of 20 miles of 1 in 80 must be overcome. I leave the discussion of the practical solution of this to those who are interested and skilled in railway matters.

allway matters.

Cwmystwith Mine was undertaken by the present company in the auti

of 1344; the first Lost was incurred in December of that year. At that timby the only but discovered in the mine lay in a nearly horizontal bod, on the haging share of the lode; it was calculated to be about 500 tons, on the layer of layers, and it was calculated by various scientification of the layer of layers, and it was company to the layer of layers, and it was company to the layer of layers of layers, and the layers of layers

3817 per month, or 13,080f.; while the returns have been, according to the estimates, 1207 tons, which, taken at 9l. per ton (the price, less the royalty), would leave a deficit of 2217l. only, exclusive of 1000l. paid for machinery.

The outlay, in trial, has been:—For driving the 16 east, 150 fma. at 5l. per fm., 750l.; the 30 west and cross-cut, 70 fms. at 6l., 420l.; the King's Side adit, 130 fms. at 5l., 650l.; the Pengaylan adit, 60 fms. at 5l., 300l.; Bonsall's level, 80 fms. at 6l., 480l.; ktaw's level, 70 fms. at 4l., 280l.; Blue level, 30 fms. at 7l., 210l.; King's Side engine-shaft, and appendages, 1500l.—making a total outlay of 4590l.

The discoveries effected by these trials are, first, the lode under the bed of ore by the 30 fm. level. Ore ground has been laid open on this lode, at this level, for a length of 15 fms.—13 fms. of which have yielded nearly 3 tons to the fm.; and there is an excellent course of ore in the western end. The ore above this level, unwrought, is for 10 fms. in height, which, by the length, 13 fms. at 2½ tons to the fm. gives 325 tons of ore. But the great value of this discovery is the holding, or continuance, of the ore ground in the western end.—which, if it should last for the length of the ore ground in the level above, would give productive ground for an extent of 60 fms. in length—which, at 2½ tons to the fm., would easily enable returns to be made from this part of the mine at the rate of 150 tons a-month. Secondly, the King's Side shaft, and 15 fm. level, have laid open ore ground 30 fms. long and 25 fms. high, yielding, on an average, 2 tons per fm.—making 1500 tons of ore. Altogether, the ore ground laid open may be safely estimated at 1800 tons, or 18,000l. worth of ore. Returns may be henceforth made with regularity and permanency, from the back of the 30—13 fathoms long, at 2½ tons to the fathorn, 32 tons a-month; and the back of the 15 farhom level, at the new shaft, 30 fms. long, at 2 tons per fm., or 60 tons monthly. From other ore bargains, the continuanc

CHESTER AND HOLYHEAD RAILWAY.

CHESTER AND HOLYHEAD RAILWAY.

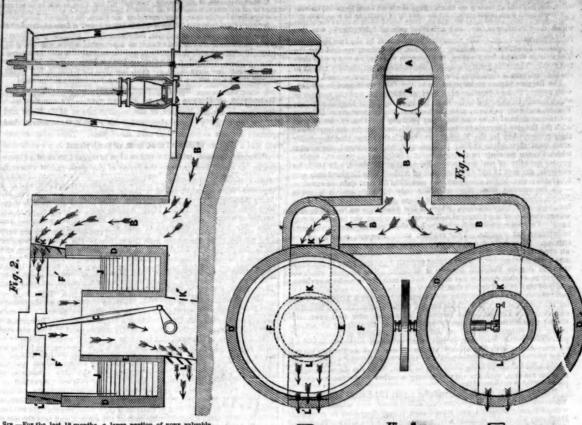
Sin,—Is appears, from the newspapers, that the Chester and Holyhead Railway is now completed as far as Bangor, and that the only obstacle to its being opened thus far is, the tubular bridge over the Conway, which, although completed, has not yet been fixed on its bearings. The result of the experiments for testing the strength of this wonderful bridge, should, I think, be made public as soon as fossible, as great fear of the issue exists, which is evinced by the extremely-depressed value of the shares. As this line—if the Menai and Conway Bridges realise the hopes of the engineer—will have at its termini a larger amount of population than any other in the United Kingdom, it is reasonable to infer, that it will yield a dividend excelled by none; but, as this is not obvious to all railway investors, I should feel greatly obliged to any one of your numerous correspondents if he would favour us with data upon which to found a sound opinion on the subject. It would be esteemed a favour by many of your readers, if you, Mr. Editor, would insert weekly, among your useful sotabilia, some facts relating to the progress of those iron tunnels, as such information would tend much to allay the apprehension which seems to have taken possession of the public mind respecting their, stability.

Chester, Dec. 7.

[Numerous notices have already appeared in the Missing Journal of the progress of tunnel bridges and from girders; and every information which can possibly be obtained of these interesting structures, will be given as their crucition progresses, and fresh circumstances are brought midor our notice.] \$\epsilon_{\text{s}}\$

NEW SYSTEM OF MACHINERY FOR VENTILATING MINES.

INVENTED BY MR. WILLIAM PRICE STRUVÉ, Civil Engineer, Swanses



Sin.—For the last 18 months, a large pertion of your valuable Journal has been devoted to giving publicity to the views and schemes of practical men and others, which have had for their object the improvement of the present system of ventilation.

This subject received some attention in the last session of Parliament; and I have read a paragraph in your Journal of the 37th November, stating that it is again to be revived at an early period of the present session. No one can doubt, therefore, that an improved system is much called for.

The object to be attained, appears to me, to be sufficient ventilation at all times. Mines are at present ventilated by means of furnaces, and this system is best applied when the furnace is pisced at the bottom of size upcast pit, because the ascentive force of the upcast column will depend upon its length and te upperature; and, therefore, its weight, as compared with the weight of a corresponding column of atmospheric air, pressing throug h the downcast pit. It is not necessary to enter into calculations, to prove what must be evident to every one—that the ascentive force to the up column will vary with the attention and care bestowed on the furnace, as well as with the thermometrical and baromotrical chan gas inthe atmosphere.

These considerations have led me, in the course of my professional pursuits in mining, to endeavour to suggest at in improved system; and, as ventilation has always appeared to me to be a mechanical operation, my endeavour has been to produce, by mechanical means, a plan which should supersede the furnace, and, at the same time, take advantage of that important feature in a imported system easy and inexpensive.

In order to accomplish this, I convert the whole of the air pasaggs, as well as the upcast pit, or so much of it as may be judged sufficient, into the suction pipe of my pumping apparatus. The description of pump which is the sum of the partial subject of the air, the contrived of massers or of the require of the past, with the apparatus by tun

cover will be stationary, with the rod working through it. It will be perceived that this system does not interfere with any of the arrangements underground, but that it merely supersedes the furnace.

A current of air, moving at the rate of 10 mises per hour, would be equivalent to half-apound pressure per square foot. It may, therefore, be readily understood, that the power requisite to produce a strong current of air through the mine need net be great, and that tight joints are not indispensable; the pressure being slight, as the tabulated statement serves to demonstrate. Neither the barometrical nor therefore, he readily understood, that the power requisite to produce a strong current of air through the mine need near affect the operation of this apparatus. The quantity of air drawn through the mine can be ascertained with a much recurrey as the quantity of water trained by a pump. In case of obstruction in the surface was the quantity of water through the man part of the continue to the origine-man by the interessed pressure which would be produced upon the gasometers: and, in case of an explosion (very unlikely togks o place with such a ventilation), the vast body of air which would still continue to traverse the workings, could not fail to clear the colliery of the nozious gases which succeed it, and aford a safe retreat to the men.

Another advantage derivable from the use of this machine, is that, by closing the down cast pit, and by applying sufficient power to effect slight exhaustions of the mine, during the cessation of work, the goals of a colliery may be drained of their noxious gases: so that, on a Monday merning, which, under the system of fornace ventilation, proves the most dangerous day of the week, the workmen will find the mine in a wholesome and safe condition. The damage occasioned by a single explosion has, in some cases, subjected colliery proprietors to the less of not less than 20,000.

A few hundred weights of coal will preduce the power requisite, which may be derived from a small

Calculation of the Power required to work this Machine.

DESCRIPTION OF THE PLATE.

DESCRIPTION OF THE PLATE.

Figures 1, 2, 3, are a plan, section, and elevation of the mine ventilator. A, represents the upcast pit, which may be either the coal or pumping pit. B, tunnels or tubing, connecting the upcast pit, which may be either the coal or pumping pit. B, tunnels or tubing, connecting the upcast pit, with the mine ventilator. Thus, an uninterrupted communication is established with the whole of the air passages and galleries of the mine. D and D, are cylinders or vessels, which may be constructed of masonry, wood, or iron, containing water, through which an elongation of the tunnel from the shaft is introduced. E, is the elongation reverted to above. FF, gasometers, hollow platons, or chambers, which are made to move vertically in the water. GG, connecting-rods from the cranks to the gasometers. H, cranks and shaft, which are made to revalve by a steam-engine or other power, to create the vertical motion of the gasometers. II, upper parts of the cylinders, which may be constructed of light frame-work, sheet iron, or even glass, if desirable, as the pressure is very slight. J, surface of water in the cylinders, D.D. K &E, inlet valves from the mine. L.L, four sets of outlet valves, opening so as to allow the impure air to escape into the atmosphere. M, is the framing of a pit for raising coal, showing the cover, N, raised by the waggon, and the platform of the waggon supplying its place: and also the other cover, N, at reat on the other cover, N, at reat or on the other cover, N, at reat or on the other cov

and fills the ascending: gasometer, F. The other gasometer descends at the same time and, therefore, the inlet valves, K, open and admit the air of the mine into the uppe cylindrical chamber, I. Upon the reverse motion, the gasometer, F, ascends and fill with air from the mine through the inlet valves, K, and fills the ascending gasometer. In the other gasometer gasometer descends at the same time, and, therefore, the inlet valves, K, open and admit the air of the mine into the upper cylindrical chamber, I. Upon the reverse motion, the gasometer, F, ascends and fills with air from the mine through the inlet valves, K, and all the mine trushes into it through the inlet valves, K, and fills the chamber, I, and each these gasometers discharges the air, which they had drawn from the mine in the previous motion, through the oulet valves, L. The water forms the packing or hermetical seal, which prevents air escaping or being admitted, except through the lesiet or out let valves. The quartity of air which this machine will draw out of the raine is ascertained by the size of the gasometers used, and at the rate at which they move.

The power required to work it must be estimated by the diameter of the gasometers which should be determined by reference to the area and length of the upoast pit, and of the galacties of the union, and of the velocity as which it is desired to draw the all through them: allowance must also be made for the friction of the machine, which, however, cannot be great, as the gasometers move is water. The coat of erection for a 15-ft diameter mine ventilator, would be about 2801., exclusive of the power required to work it diameter mine ventilator, would be about 2801., exclusive of the power required to work it greates and the rest of the power required to work it greates and the rest of the power required to work it greates and the rest of the power required to work it greates and the rest of the power required to work it greates are the power required to work it greates and the rest of the powe

THE SPRAY PUMP AT LLANHIDDEL

Sig.—In discussing the merits of the spray pamp, I do not wish to overstate, or give an erroneous colouring to a single fact. My object is not to decry the invention, but only to elicit trath. Is is for the public, who judge, to subtract from the arguments adduced on either side, such part as they may consider not proven—remembering that constanting the colour part of the public, who judge, to subtract from the arguments adduced on either side, such part as they may consider not proven—remembering that constanting the subtract of the power employed, Mr. Adocek says, "the engine his headen-minus such statement, and the instruceose dipendent upon it. In reply Mr. Brown's calculation of the power employed, Mr. Adocek says, "the engine has seen worked for hours together, at a pressure on the bolkers, of 16 its, to the squar man has seen worked for hours together, at a pressure on the bolkers, of 16 its, to the squarment has seen worked for hours together, at a pressure on the bolkers, of 16 its, to the squarment has been worked for hours together, at a pressure on the bolkers, of 16 its, to the squarment has been worked for hours together, at a pressure on the total statement amounts—keeping: in mind that this and the succeeding calculations are only the statement amounts—keeping in mind that this and the succeeding calculations are only to the ordinary come of the water, which we have before proved equal to 61 hours be ordinary come of the water, which we have before proved equal to 61 hours be ordinary come of the statement amounts—keeping—linder, 36 inches: 36 — 15 — 35, and 38 ± 2 (6 ± 2 ± 1) + 5640 = 44 × 2085 horse-power, leaving a loss somewhere of 374 horse-power, 14 inches to rule from the compute the compute the provided of the statement of the compute the decrease of the statement of the compute the first of the compute the quantity of steam these boilers were optimited, 33 feet long, 8 feet diameter —with single tube, 2 9 x2 0 feet; fire grate, 5 x7 feet. To compare with fir. Adocek's scaling for each h

tom surface, from which use glovane or sealm cannot get the air to be divested, of all and calculate the return side flues as nothing: supposing the air to be divested, of all calculate the return side flues as nothing: supposing the air to be divested, of all calculations are the surface for each horse-powers.

Now, Tredgold allows so feet of this surface for each horse-power, or cubic foot of walse evaporated per hour under the above pressure—10°9-berne-10

less of one-fourth, "the quantity of sir delivered into the chest will be about one-fifth less than the capacity of the cylinder, when taken at utmospheric density—partly through recape by the valves, and by the air not entering till the space within the cylinder is traveled, so as to produce the velocity." A loss of '45, or searly one-hard of he whole power employed, is thus accounted for.

Let us now take a glance at the future. Suppose the pit sunk, by the old method, to "the estimated depth of 260 yards," and the quantity of water, as in trial, 1333 gallons per minute: then, according to Mr. Adocek, there would be in every 54 feet of the upestepipe, 251-bit, or in the whole length, 320-79 gallons, or 3207-910s. — 113 in., area of the pipe—gives 26 then, pressure per inch on the "their words be in every 54 feet of the upestepipe, 252-254, and so oldered to one another," at specifies. To overcome this pressure, there must be a greater in the blast-cylinder—we will take it at the same. The platon, to produce this pressure, must more to "34 of its stroke, before the outlet valve is opened, intend of '18, as when the pressure will take it at the same. The platon, to produce this pressure, must move to "34 of its stroke, before the outlet valve is opened, intend of '18, as when the pressure will take it at the same. The platon, to produce this pressure, must move to "34 of its stroke, before the outlet valve is opened, intend of '18, as when the pressure will take the attendance to the same volume of air passing through the was at these, a rule, consequently, to keep the asset when the pressure arrangements, at the same rate—which, for either or both, would be ridduclous.

The above data are taken from Mr. Adocek's own letters, and evidently involve the necessity of an entirely new plant. Thus, Mr. Blewith has purchased a spray pump and machinery, which have not been, nor are likely to be, of the alightest use to him and this only as a very inconsiderable perion of the pleasity paid for trying the experiment.

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without the aid of the old liming pump with the second pump with the second pump. These who know the importance of time in sinking, will see the great when the objection.

In reply to these objections we want facts, and none can be brought forward. The glotes of Lianhided, of Tipton, and of Wigan, shed but a very faint halo around the expiring arms of the sex pump. In short, to make a summary of this last trial, we have at Lianhided, a spray pump abandoned—a pit aunit four yards in four months—the three boliers totally rained, and taken down—all the allie, are an around the pit objects to a water of the second pump with the second

divertise as "successful practical operations!"

From such successful practical operations, may every work with which I am connectes for ever elivered. If Mr. Blewitt had taken only half the trouble to inquire into the nearits of the spray pump before he laid it down, which he has since taken to defend it clashidded would never have been the "quondam" wonder of a district, and now it aughing-stock.—Heway Williams: Pontypool, Nov. 29.

TOTHBROKE WORKS-SIR T. LETHBRIDGE AND MR. RADLEY.

Sin,—As you have published a kind of statement from Mr. Radley, relative to a treaty that was once going on between us, but which was broken off long before the 17th Mov. when I sent you will sate letter and notice, I trust you will sate for me—that what is now put forth by Mr. Radley is entirely incorrect, and very far from the real facts of the case but that I shall not trouble myself to make any observations, further than to asy—Mr. R. Mashet's unexpected letter of the 29th November entirely exonerates me from Mr. Radley' charges. I want nothing more: and, as he has threatened proceedings at law, the time has not come for further disclosure.—T. B. Lettendick, Bart.: Sandkill Park, Dec. 8.

MR. RADLEY'S POUND OF COKE.

Mr. RADLEY'S POUND OF COKE.

Sts.,—The enigms which Mr. Radley asks for an elucidation of, can be readily explained.

Let the pound of coke contain 5 per cent. of earthy matter, then will there remain 6600 grains of carbon. To oxidise 6600 grains of carbon, 8692% grains of oxygen will be required; and 8692% grains of coxygen combine with 34,771 grains of nitrogen to form atmospheric air, weighting 43,464 grains. Hence, 43,464 grains of atmospheric air, effectively applied, would oxident 1 ho. of coke. Shu. Mr. Radley states, that 170 cubic feet of cold air were required to oxidate 7000 grains of coke, or 6550 grains of carbon.

170 cubic feet of cold air weigh and the has been shown that the quantity necessary to oxidate 6550 grains of carbon in order of the cubic feet of cold carbon.

170 cubic feet of cold air weigh and the has been shown that the quantity necessary to oxidate 6550 grains of carbon in only.

43,4646

There is, therefore, a waste from deficiency of temperature, of atmospheric air, each to accompany to the species of the spined coke, than when cold air was used. Therefore, the facility of combination between the oxygen and carbon was augmented, and less atmospheric air was wasted; that is, passed away, without combining with the carbon. The waste was now diminished to 22,456% grains of atmospheric air; and a further elevation of the temperature of the air to 6900, caused a diminuation of the waste to 18,0529 grains of atmospheric air. The searer the temperature of the hearted air approximated to that of the figurited coke, the more instantaneous will be the combination of carbon and oxygen to form carbonic oxide, and the nearer will flue quantity of atmospheric air actually used approach to the quantity, which is absorbed necessary to oxidise the amount of carbon in the coke—thus:

The onautity of air actually used, when cold to oxidise the amount of carbon in the coke—thus:

the coke—thus:
The quantity of air activally used, when cold, to oxidise 7000 grains of coke,

a to regain

At 600° of heat.

4,3464

And the quantity of atmospheric air absolutely necessary is.

4,3464

That is, 80 cubic feet of atmospheric air, nearly, when the whole of it is effectively ap piled, is necessary to exidate 7000 grains, or 11b. of coke, containing 6550 of carbon, an 350 grains of early matter. As 1b. of coke will smelt 3 bs. of iron, when most efficiently applied, 747 lbs. of coke will smelt 1 ton of iron; and, since 1 lb. of coke consume 60 cable feet of atmospheric sir, 747 lbs. will consume 69,700 cubic feet so that, in rounnumbers, 60,000 cubic feet of atmospheric air, at the minimum quantity required te smel 1 ton of jag-iron. At three hot-blast furnaces, working upon materials widely differing the average number of enbic fact of air, per ton of iron, taking an average for 12 months was found at—

P.S.—I have considered that the cold air weighs 549,340 grains per cubic foot; but 32,009, its weight at 60°, might have been more properly taken.

SITE OF THE LOTHBROKE IRON-WORKS.

SITE OF THE LOTHBROKE IRON-WORKS.

Quot homines, tot ententia.—Cicro.

Sun,—Ability, fostered by opportunity, makes the high road to success in every andertaking. Without ability to succeed, opportunity of the most received character would inevitably be Jost; and without the fit succedance of opportunity, the brightest talents, the most sterling ability, and the most unwearied perseverence in the best directed efforts, must inevitably prove abortive. Where would Kapoleon's ability to assume the importal diadem have terminated, if opportunity had not occurred in the very nick of times, when every thing conspired to favour blaceflorts, in the shape of "a crown going a bagging?" What would have become of George Stephenson's tille to entereds as a rainway engioses, had not a semiplete railway presented itself, lacking the very machine apportunity alone created both the emperor and the ongineer; and this it is, without acope to use, the best abilities must be vain.

How, then, can I belp succumbing to the influence which prompts me to exclaim that, notwithstanding Mr. R. Mustet says that the site of Luxbore' for an irom fabricatory "is a bad one," the situation in question is one of the most favoured by Nature with capabilities of easy art, that it has ever been my tot to contemplate. Let any man, conversant with the subject, form for himself a canon of criticism, whereby to test the truth of this assertion by the actual capabilities, as they exist at Luxboro'. Such a canon might be the following:—

Abundance of rich ore.

Yarlety of these oves.

Ease of access, and drainage of minerals.

Variety of these ores. Ease of access, and drainage of minerals. Declivity of site. Facilities of land and water carriage. clittes of lancilities of lawcilities of power.
Lundance of accounty mateLundance of accounty mateLundance of labour.

Flonty of fisel, and forest wood.

I this site at Luxbo

do any good,

for

chundance of water.

steristics of this site at Luxboro', whereby, according to Mr. R. astley could not do any good, either for himself or Sir Thomas, as sill," and, forgetting the adage assumed as the became "he thought his honour was concerned in repudiating tamplated, nor understood, or, if sie did, he was actuated by two motive," eistes that "Mr. Ratiley has, in giving a contrary us about his honour?" I will thank Mr. Mushet to leave me r dare to bring actions in question, whose motives he does not combroke?" The Lothbroke?" The Lothbroke?" Inc. and bee tive of this paper, and bee halities be never contorand my honour alone, nor daze to bring actions in question, whose motives he does comprehend. What is the value of Mr. Mushel's honour, when he can, degrab-then ger-like, bareaccelly crush another's prospects, by the confidence of opinion, under specious closk of honour? and what his opinions, tending to negative the following fabricating capabilities of the Lothbroke site, in the lap of which mineral Mature te to profission, conferring benefits far outweighing in value her denial of coal. Thus: Water-power of 200 horses, at a droughty misimum, available at every part of the

Hematites, capable of yielding from 6 to 7 per cent. of bar-iron.

Superposition of saut or hands as any description of furnace stacks.

The very limestone is hematitic, and one sample I brought away with me, contains any description of surnace stacks.

The very limestone is hematitic, and one sample I brought away with me, contains at much carbon as will emelt it! And yet the site is a sele one! I trust the baronet will not be led away by such poisonous opinions, or that some other capitalist, of liberality, will test my capacity to medit sau ton of iron with 12 cwts, of coal.

A sea-port town, at the distance of seven miles, with a level trust of allowing, forming the locus of a brook, fed by the totrests of Lollibroice Glen, invitingly affording a matchiness site for a trans-way, or motive-power railway; the first of which it will engage to construct complete for use at 400t, per mile, and the latter, to be worked by the said 200-horse power of water, offer it has left the Lothroiks Iron-Works, at 600t, per mile, with waggons and motive-power complete, capable of bringing the best Weleb scals from the port of Watchett to the works, at \$2d. a. top, for the entire distance.—W.S. There are persons of discernment in London, who have seen, and can attest, these capabilities of transit. The processes which it was my intention to carry out, would be well served by transit.

fuel," which is compensated tenfold by—

1. Natural power to drive the works.

2. Abundance and variety of iron ores and fux-stone close at hand.

3. Natural viciness of ore, requiring less fuel to yield a ton of iron by 30 per cent. than is usual; thus reducing the cost of coal indirectly to 6s., the price this article costs the Low-Moor Iron Company, which makes the best iron in this country.

4. Capability of these ores to yield malisable iron and steel of finest quality, by "first intention."

4. Capability of these ores to yield malescels from and steel at most quality, by "rise intention."

The greatest obstacle in the way of smelters of ordinary understanding, consists in the opproblem declorum—that the richer the ore, the more difficult and expensive it is to treat? I should be ashamed to think of success in smelting from, as Mr. Musbet states, being an attendant on the adoption of his plan, in Sir Thomas's possession. What egotism it must be in the man, to suppose that such success could only attend on steps of his chisoling, at the same time that he tells us, that "his honour negatived this supposition, when the baronet required his services." Prob pador! I say again; and so must the world. In common fairness, what can we think of these two expressions, taken togother as they stand, when he says, "In 1898-7. I attended a very complete set of experiments on the production of steel from a pusidiling furnace;" and then, "but in every case the quality of the steel was exceedingly inferior." What effontery! Complete experiments, with exceedingly inferior products!

I could put the barones 100,000l, per annum in his pocket, from the extra facilities of "the bud site."—William Radder, Ch. E.: Barnsbury Park, December 5.

THE LATE MISS MARY ANNING.

To could put the baronist 20,0001, per annum in his pocket, from the extra facilities of "the bad ste."—WILLAN ROLEY, for E.: Lamburopy Park, December 5.

VHE LATE Miss MARY ANNING.

Sir,—The pitiable pension doled out by the niggard hand of a Government, which coulines its honours and rewards to military provess or may heroism, and contrives to forget the imperishable triumphs of mind in science, literature, and art (as exemplified in the case of the widow of an ingenious man), reminds me of a similar trifle bestowed on the late Miss Mary Anning, of Lyme Regis, to whose contributions the science of geology is so largely indebted. Mary Anning was, in every respect, a remarkable woman, and, withal, generous and liberal in her geological dealings. She had, too, the merit of supporting, by her unaided exertions, an aged mother. It was Mary Anning who supplied, from time to time, materials for the completion of the skeleton of the ichthyosustras, until, under the anatomical skill of Sir Everard Home, it "stood confessed in all its charms"—the LZARD FISH. This curious consummation occupied as many years as the siege of Troy; and Miss Anning was the Holen of this "strange, eventful story!" She it was who discovered the fine specimen of plesiosaurus, sold to the Duke of Buckingham for 120 guineas.

Mary Anning's geological career began early. When a little girl, she had picked up, among the rocks, a fine specimen of ammonite; and a benevolent lady gave her half-a-crown for it. This incident faced her geological doskiny. She told me her earlier history, which was not a little remarkable. While yet a baby in the nurse's arms, she was taken to a neighbouring fair. Here, surprised by a thunder-storn, they took shelter under a tree, on which the lightning fell, destroyed the tree, and killed the nurse. The baby (Mary Anning) was taken up, apparently lifeless, and restored with difficulty to animation by the judicious use of the tepid bath. Subsequently to this, the nurse let her fall into the sea, from when each and the re

GEOLOGY-DR MURRAY.

Sir.—I have always considered Dr. Murray as your ablest correspondent, and I have often regretted that he did not write more frequently and fully upon matters which no man understands better than he; but I cannot allow his present contradiction, respecting the fact of my having seen organic remains in granite, to pass without one more remark. Suppose, then, I was deceived in the appearances at Lancresse, and that what I thought were organic remains, were, in reality, something else, even this admission does not invalidate my statement in toto; for, in the year 1829, when residing in Liverpool, I saw a semi-animate toad taken from a cavity in a block of granite; and the nearest part of this cavity, to the least, distant surface of the block, was upwards of 10 in., and there existed no sign whatever of any fissure which could have communicated with the cavity; all around was pure and homogeneous granite. Mr. Deakin and Dr. Murray cannot find organic remains in the Lancresse granite; but I believe that I have seen that which has by some means escaped their observation. I conceive that no unprejudiced man can, for a moment, doubt the universality of the Deluge; and, for the benefit of the prejudiced, I think no man can more ably lay the geological evidences of an universal Deluge before them than Dr. Murray.

OXIDATION, OR CORROSION OF IRON.

Deluge before them than Dr. Murray.

Coleford, Dec. 8.

OXIDATION, OR CORROSION OF IRON.

Sir, —Whilst I admit that Mr. Spencer's lecture upon this subject displays much ingenuity and research, it yet exhibits an entire ignorance of some of the most samiliar properties of iron, and his reasonings are established upon very fallacious data. "It is well known (says Mr. Spencer) that softer cast-iron corrodes much more rapidly than that which may happen to be harder." Now, the very reverse of this must be obvious to any person who has bestowed the most superficial observation upon soft grey cast-iron and hard white cast-iron—insomuch that, where pig-iron of these two qualities has been for a few days stacked in the open air, the hard white metal is at once recognised, even at a distance, by its thick and red covering of rust—whilst the soft grey metal is little, if at all, affected by corrosion. And, again, the stacks of No. 3, or hard grey metal, will be found more corroded than No. 1, or soft grey metal; and when the metal is exceedingly carbonated and soft, weeks, and even months, may elapse, before it is thoroughly rusted—whilst it is difficult to expose the hard white metal a single night without corrosion of its surface taking place. Again, Mr. Spencer says, the hammering of rivets makes them harder. Now, as a general rule, it will be found that, whilst hammered iron is denser and tougher than rolled iron, it is very frequently much softer; and the more it is hammered, the softer it becomes. Every smith, who has used Russian hammered iron, and British rolled iron, will confirm this statement. The mammered iron, and strints rolled iron, will confirm this statement, and it contact with the iron; nor is this sufficient to effect oxidation, nuless the particles of these substances are excited to act upon each other by electricity, which only takes place through the medium of moisture, or dampuese—that is to say, moisture is the vehicle of the electric action upon the iron—carbon and oxygen.

Suppose, first, that OXIDATION, OR CORROSION OF IRON.

was too much elevated to be subject to the full force of these conditions. Similarly in Egypt, where storm clouds are almost unknown, the excidation of from is very slow from the imperfect power of the electrical ageacy. White east-iron rusts sooner than grey cast-iron, because its carbon is meanly all combined carbon, and fitted, from its state of chemical division, to accelerate the corrosion of the iron, by forming carbonic acid with the oxygen of the atmosphere. Grey cast-iron, though it contains a greater aggregate amount of carbon than white cast-iron, ret has it existing, chiefly in mixture, and but little in combination—so that there is only a small portion of carbon in a state fitted for combining with the atmospheric oxygen to form carbonic acid, and thereby to accelerate the corrosion of the iron; and, besides the free carbon existing in the state of keesh, covers and protects every unbroken crystal of iron from the action of the atmosphere. When bar iron is immersed in common water in the state of filings, a coating of rust will be observed upon the filings, derived from the carbonic acid, which always exist to some extent in common water; but when a second quantity of filings is introduced, no oxidation ensues, because all the carbonic acid was abstracted by the first dose. The carbon, which oxidiation leaves upon the surface of iron, is the free carbon, which cannot enter into combination with oxygen, except by direct combustion. I believe the above to be the true explanation of the corrosion of iron in general; but there are many local and accidental causes which may hasten the oxidation—such as guseous fumes, and direct contact with acidulated matter, or liquids—but these latter causes are the exceptions from the geoperal rule. I think it will be found that, with all metals, the simple atmospheric corrosion commences with the formation of a carbonate. When iron is the most exposed to the heat of the sun, the protoxide first formed must pass more speedily into peroxide than in those parts where t

Coleford, Dec. 7.

Mn. JOSHUA RICHARDSON, C.E., AND THE TELFORD MEDAL.

Sir.,—You appear delighted, that the Telford silver medal, and council's premium of books, were presented to Mr. Joshua Richardson, C.E., of Neath, by the Institution of Civil Engineers, for his paper on the "Ventilation of Mines;" and you express an opinion, that thousands of colliers in England will be benefitted by it. In the Mining Journal of the 27th of March last, I found the article referred to sure enough, but not one single word can I discover as to how mines are to be ventilated—not a word, with the exception of the recommendation to have large capacious pits, both upeast and downeast—the usual stuff from men unacquainted with colliery business. What can large upeast pits be required for? A pit, 6 ft. in diameter, is large enough to ventilate any colliery in the world. The furnace, at the bottom of the upeast shalt, is for the purpose of rarefying the air; and whether that will be best effected by a 6-ft. or a 12-ft. pit, let common sense answer. I would ask, Mr. Editor, which man most deserves medals and premiums—one who reads a preamble at a meeting to others as ignorant as himself, or the practical collier, who spands a whole life in the superintendence of fiery collieries, without losing a single life? If these fine scientific gentlemen are really the working colliers friends, let them reward those managing colliers, who have shown, by years of successful practice, without a single loss of life, that they were well practiced in the best arts of ventilation, and the general workings of a colliery, and that they deserve support. But, no; that would not do—it would not be scientific; and so the deserving men are neglected, and the theoretic fireside collier gets the reward.—T. Dhakin: Blaenauon, Dec. 8. MR. JOSHUA RICHARDSON, C.E., AND THE TELFORD MEDAL.

VEMPLOYMENT FOR THE POPULATION OF IRELAND.

Siz,—Observing, with much satisfaction, your continued advocacy of every legitimate proposal for the employment of the poor of Ireland, I take the liberty of forwarding a few remarks, of which I beg the insertion. That Ireland is now in a state of as great, or even greater, wretchedness, want, and disorganisation, than before England stepped forward to her relief two years ago, will, I think, not be denied. With the funds advanced by Government, and contributions by private subscription, millions sterling have been swallowed up, and for what?—to witness, during the ensuing winter, a repetition of the same heart-rending scenes, as have marked two previous seasons—starvation, fever, and death, in the wretched cabin home; and agrarian outrages, of the most fearful character, and murder in open daylight abroad. That there must be a cause for this sad state of things no one can doubt, and I fear there are many sources to which it may be traced. Insufficient laws, badly, of hazshly administered—the absence of all secure tomant right, as customary in other countries, where the tenant is secure in his claim upon the land for the amount he has expended in improvements—absenceism, and the consequent drain upon the agricultural classes to pay their rents, and send out of the island a large amount of food of all descriptions, which ought to be consumed at home-these are some of the evils which cry aloud for redress, and which it is the iduity of Government to take some immediate steps to mitigate. Leaving these, however, for others, who are better versed in political economy, and physical statistics, I would call your attention to the state of mining in this unhappy country. With scarcely a county but produces some valuable mineral produce, were the following out of mining supported by the laws, and cherished by the owners of the soil, to the same extent as in England, one source of employment would be opened up, which would amoliorate the condition of the people to an incredible extent, cause a reaction in other branches Sin,-Observing, with much satisfaction, your continued advocacy of every legitimate proposal for the employment of the poor of Ireland, I

Sin,—In an age, like the present, when so many works of magnitude have been completed, and others in progress, the crection of lighthouses on the Godwin Sands, and other dangerous situations round our coasts, appears to baffle all engineering skill. The several attempts to creet a lighthouse on the Godwin Sands—such as the "light of all nations," &c.—have all proved miserable failures. How men, professing a knowledge of practical engineering, can give way to the fanciful theory, that a sand of have all proved miserable failures. How men, professing a knowledge of practical engineering, can give way to the fanciful theory, that a sand of a specific gravity, little greater than water, can of itself susain a lighthouse, I certainly am at a loss to conceive. We are told, that the sands are not more than from 35 to 40 ft. deep, beneath which is the chalk formation. The method I propose is, to construct a cylinder of boiler-plate iron, which, suspended between four lighters, could be floated to the spot, and driven down to the chalk by atmospheric pressure. The external fron piles, as recommended in my letter in the Journal of the 27th nlt, for the protection of the cylinder and concrete, should be 3ft. diameter, and in lengths of from 15 to 20 ft., with a socket flange of from 18 in, to 24 in. long. Each pile should be fitted up on shore, and marked to prevent mistake; and the joints could be made air and water-tight with either and, grease, hemp, or marine glue. When the pile was driven the required depth, the sand and water should be cleared out, and a wooden pile inserted, prepared by Messrs. Payne and Loder's process; and, by drilling through the iron, the whole could be firmly bolted together. On clearing the and from the cylinder, if I found that the ground was not to be depended ou. I would drive another series of piles still deeper, and commence the foundation on them. I am hed to imagine, that the authorities of the Trinity Homse must be tired of the unskilful attempts which have been made to erect a lighthouse without first securing a firm foundation—while the vast amount of life and property which are annually loss on these treacherons sands, certainty calls for rome step, on the part of the Legislature, for the erection of a lightbouse on sound principles. I have, for the past two years, turned my attention to these treacherons permanent lighthouse at a cost not exceeding the property lost in the olate shipwreeks—to say nothing of the awful sacrifice of human life natantly occurring, which would, to a great extent, be prevented. Fleet-street, London, Dec. 9.

G. Shepherd, C.E.

RON, HARDWARE, AND METAL TRADES' PENSION

society:
WILLIAM BARROWS, Esq. of Bloomfield Iron-Works, Tipton.
WILLIAM BARROWS, Esq. of Goldshill Iron-Works, West Bro
meeting then proceeded to the ballot for the election of four addit
the following votes were recorded—for,
Deborah Tonks, four years a subscriber.
Charlotte Wollerton, one year a subscriber.

Stephen Bloxwich
Esther Fryor
William Swap
Robert Pratt
William Williams

mittee. lived unanimously,—That the cordial thanks of this meeting be presented to Robt. a Kennard, Esq., vice-president, for his kind, able, and impartial discharge of the of chairman.

THOMAS HAWKINS, Hon. Sec. 67, Upper Thames-street, London, Dec. 6, 1847.

TRON, HARDWARE, AND METAL TRADES' PENSION SOCIETY.—Notice is hereby given, that the FOURTH ELECTION OF PENSIONERS of the above SOCIETY will Take PLACE in the month of MAY next. The candidates must be deserving and necessitous persons—occupying, or having occupied, the station of master, traveller, clerk, warehouseman, shopman, foreman, or apprentice, in any branch of the iron, hardware, and metal trades, in any part of England; or the widows of such persons. The printed forms of application may be had of the undersigned, to whom they are to be returned, filled up with the required particulars, on or before the 7th of February Lext, after which day no application relating to this election can be received. Further information may be obtained on application to any of the members of the committee in town or country, or THOMAS HAWKINS, Hon. Sec. 67, Upper Thannes-street, London, Dec. 6, 1847.

RAIL WAY ACCIDENTS.—Messrs. BRETT & LITTLE are prepared to ATTACH their "MEANS of COMMUNICATION between the GUARDS and ENGINE-DRIVER," on any line of railway: it will be in operation, in the course of a week, on the BRIGHTON LINE, and may also be SEEN, as well as their ELECTRIC TELEGRAPH, at their OFFICES, Furnival's Inn, London.

AYRSHIRE IRON COMPANY.—We understand that the directors have resolved Axising incompany.—We independ that the directors have resolvent raise at once the necessary money for carrying on the company, and a large m was subscribed on the spot for that purpose. It is expected that all the archolders will enter into this arrangement; for if the company can obtain ne, and avoid making a forced sa crifice of their property, the loss, if there any loss at all, to all concerned will be but triding.

time, and avoid making a forced sa crifice of their property, the loss, if there be any loss at all, to all concerned will be but trifling.

The Orrell Coal Mines.—In the year 1792, the late John Clarke, Esq., banker, commenced working the Orrell Coal Mines under a lease from Meyrick Bankes, Esq., Winstanley-hall, near Wigan, father of the present possessor. Up to that period the common coal only was used for household purposes; and on the introduction of the Orrell coal into Liverpool it was sold at a lower price than common coal, to induce housekeepers to make trial of it. Its superior durability, added to its pleasantness and cleanness in burning, soon gave it a most decided preference, even at a much advanced price. This pre-eminence it has since retained in Liverpool, and in the home and foreign markets it is considered equal to the best Wall's End coal, so much esteemed in London. It has also been proved to give out a greater quantity of gas, and make a better cinder or coke than any other coal in Lancashire, a further proof of its being the most durable and pleasant burning coal for parlour and kitchen use. The Orrell Mines have been for several years exhausted in the township of Orrell, but are still sufficiently plentiful in the adjoining township of Winstanley; as it was stated in the evidence before a Committee of the House of Commons, on the Liverpool, Bolton, and Bury Railway Company's Bill, that Meyrick Bankes, Esq., had 1200 acres of the Orrell Mines on his estate, which he is working on an extensive scale, and it is calculated to yield 12,000,000 tons of coal, or 400 tons per day for 100 years. Within the last few years, other collieries have been started on the other side of Wigan, about three miles from the Orrell coal-field, and the coal, though called the best Wigan coal, is sold at a less price than the Orrell coal, thereby proving the superiority of the latter.—Gore's Liverpool Advertiser.

Liverpool Advertiser.

OTENING OF THE WERFA COLLERY.—This colliery, which, from the quality of the coal, and the large extent of land which is to be worked, promises to be one of the most flourishing in the valley of Aberdare, was opened on Monday week. There is an incline plane from the pit's mouth, to the Aberdare Railway, which is admitted by competent persons to be admirably constructed for its intended purpose. We may add, that the lease of the property was first taken upon very favourable terms, by the Marquis of Bute, from William Thomas, Esq., of the Court, and has been relet by the noble marquis to Mr. Nixon—it is, we understand, now Messrs. Nixon and Williams'. The former gentleman is well known for his extensive knowledge of mineral property, and scientific abilities in underground surveys; and the construction of the pit, and its auxiliaries, reflects the highest credit whon his judgment and ingenuity. When in full work, it is supposed the pit will work about 200 tons daily.—Monmosthabire Merlin.

LITERARY NOTICE.

The Natural History of Creation: a Lecture, by Edwin Lankerer, Esq., M.D., delivered on behalf of the Young Men's Christian Association. London: Green, Paternoster-row. In his preface, Ir. Lankester remarks, that he delivered this lecture extemporaneously, in which case it shows him a perfect master of his subject—It actually being, as it now appears in print, a popular elementary treatise on geology, describing the various strata, with their accompanying fossila, animal and vegetable. The language is flowing and easy, and well adapted for impressing on the minds of the young the great truths consected with this interesting subject.

NEW PATENTS.

S. Revington, Frant, Sussex, M.D., for improvements in dibbling and sowing seed.

J. Britten, Birmingham, machinist, for certain improvements in apparatus for cookage, preparing, and containing human food and drinks, and in opening and closing oven loors; parts of which improvements are applicable to other similar purposes.

J. S. Torrop, Edinburgh, newspaper proprietor, improved machinery for time signals.

W. Dakin, St. Paul's Church-yard, for improvements in cleaning and roasting coffee, in the apparatus and machinery to be used therein, and also in the apparatus for making infusions and decoctions of coffee. (Being a communication.)

J. S. Eiffe, Lombard-street, City, for certain improvements in the manufacture of astronomical and other clocks, chronometers, and watches.

J. Hacket, Leicester, for improvements in the manufacture of pill-boxes.

J. C. Robertson, Floet-street, London, C. E., for certain improvements in the preparation and application of colours suitable for printing stuffs composed of silk or wool, or of a mixture of silk and wool. (Being a communication.)

COAL MARKET, LONDON.

TRICE OF COAL MARRET, LONDON.

MONDAY.—Adair's Main 16 3—Bate's West Hartley 17 6—Buddle's West Hartley 17 6—Carr's Hartley 17 9—Davison's West Hartley 17 9—Hasting's Hartley 17 6 to 17 9—Holywell Main 18 3—New Tanfield 16 6—Original Prostop 16—Tanfield Moor 17 6—Tanfield Moor 18 6—Gorginal Prostop 16—Tanfield Moor 17 6—Tanfield Moor 17 6—Tanfield Moor 18 6—Gorginal Prostop 16—Tanfield Moor 17 6—Tanfield Moor 18 6—Gorginal Prostop 16 6—Gorginal Prostop 16 6—Gorginal Prostop 17 9—West Hartley 17 9—Wylam 16 9—Harraton Main 16—Eden Main 20 6—Cownford Brown 19 9—Bewieke and Co. 19 9—Clement 17 9—Gosforth 19 9—Hotspur 20 6—Crawfort's 18—East Hetton 19 6—Haswell 21 3—Hetton 21—Keepler 30 9—Lambon 20 9—Lambot 19 6—Gussell's Hetton 20 9—Shotton 20 6—Stewart's 11—Cawdoc 20 9—Adelaide Tess 20 6—Denison 19—South Darham 19 9—Tess 21—West Hetton 20 9—Adelaide Tess 20 6—Denison 19—South Darham 19 9—Tess 21—West Hetton 20 6—Ships at market, 173—204 101; unsold, 65.

WEDNESDAY.—Adair's Main 16 6—Bate's West Hartley 17 6—Buddle's West Hartley 17 6—Confidency Hartley 17 6—Res 21—West Hartley 17 6—Confidency Hartley 17—New Tanfield 16 6—Aorth Feery Hartley 17 6—Ord's Redbeugh 16 6—Orginal Tanfield 15 3—Orginal Windsway Peatop 15 9—Ponton Windson 16—South Peareth 16—Stowart's Hartley 17 6—Tanfield Moor 17—Tanfield Moor, Butes 16—West Hartley 17 6—Wylam 16 9 Wall's End Bewicke and Co. 19 9—Em Park 19 6—Gosforth 19 9—Haston 19 3—Lambton 21 —Lambton 19 3—Bourn of the Stowart's Hartley 17 6—Woodefield 17—Cownfor Tess 19 9—Orginal Tanfield 16 6—Orginal Park 19 6—Orginal Windsway Peatop 19 3—Syynnour Tess 20 3—Bouth Durham 20—Peas 21—Poss Hetton 21 6—Ressell's Hetton 21 6—Cosforth 19 9—Hastley 17 6—Whitworth 17—Woodefield 17—Ower 17 6—Hartley 17 6—Woodefield 17—Ower 17 6—Hartley 17 6—Woodefield 17—Ower 18 6—West Hartley 17 6—Windsworth 17—Woodefield 17—Ower 18 6—West Hartley 18 6—Original Park 19 6—Gosforth 19 9—Haltley Notherton 17 6—Gold Moo

CALEDONIAN RAILWAY—LOANS ON DEBENTURES.
The CALEDONIAN RAILWAY COMPANY are prepared to RECEIVE TENDERS OF LOANS ON DEBENTURES, in sums of not loss than £500, for three or five years—bearing interest at the rate of 5 per cent. per annum, payable half-yearly, in Edinburgh, Glasgow, London, Liverpool, Manchester, or Bristol.
Tenders to be addressed to this office. Parties may also communicate personally with Messra. Foster and Braithwaite, 68, Old Broad-street, London.
By order of the directors, D. RANKIRE, Tressurer, Caledonian Railway Office, 122, Princes-street, Edinburgh, March 26, 1847.

BIRMINGHAM AND OXFORD JUNCTION RAILWAY PIRMINGHAM AND OXFORD JUNCTION RAILWAY

COMPANY. FURTHER CALL OF FIVE POUNDS PER SHARE.—The directors having made a further CALL of FIVE POUNDS per share upon the respective shareholders in this undertaking, PAYABLE on the 20th day of December now next, Notice is hereby given, that the shareholders are required to pay such call on the said 20th day of December now next, to the persons and at the places hereinafter named, or some or one of them (that is to say):

To the Birmingham Banking Company, at their bank in Birmingham.
To Messrs. Attwoods, and Co., at their bank in Birmingham.
To Messrs. Attwoods, and Co., at their bank in International Control of the Company of the

A circular will be sent to each shareholder, which must be deposited at the bankers, when the call is paid.

34, Bennetts-ship, Birmingham, Nov. 10, 1847.

JOHN W. KIRSHAW, Sec.

BIRMINCHAM AND OXFORD JUNCTION RAILWAY.

TO THE DIRECTORS OF THE BIRMINGHAM AND OXFORD JUNCTION RAILWAY, when the call is paid.

We, the undersigned, being shareholders in the Birmingham and Oxford Junction Railway Company, holding in the aggregate more than five thousand shares (that is to say, more tian one-tenth part of the capital), therein do by this writing under our hands require you forthwith, on the receipt hereof, to call an EXTRAORDINARY GENERAL MEETING of the shareholders of the said company, for the following objects or purposes, that is to say, for the purpose of considering the subject of an action lately commenced against the said company, by Messicurs Samuel Morion Peto and William Eastted, and also the several actions which have been commenced in the name of the said company against various shareholders therein, for enforcing payment of a call made, or purposes to have been made, on the twelfth day of June, one thousand eight hundred and forty-seven; and for the purpose of considering and determining upon and giving such directions as may be thought fit, as to the course to be adopted by the said company with reference to such actions respectively, and, the subjects thereof respectively, and of considering the propriety of appointing, and if so thought fit of appointing, under the common seal of the said company or otherwise, and directing the employment of an attorney and solicitor, or attorneys and solicitors of the said company, to act on behalf of the said company gungrally and in all matters or on such particular matters, and for such period, and either exclusively or otherwise, as the said meeting shall think fit; and resolve, and also to take the propriety of removing, and if thought proper to remove, or discontinue the employment of any person or persons who have, or has, acted as attorneys or solicitors, or a

The requisition above set forth having been presented to the directors of the Birmingham and Oxford Junction Railway Company, Notice is hereby given, that an EXTRA-ORDINARY GENERAL MEETING of the shareholders of the sale company will be HELD at Dee's Royal Hotel, in Birmingham, or Tuesday, the 28th day of December next, a half-past Two o'clock in the afternoon.

2. H. MUNTZ, Chairman.

3. JOHN W. KIRSHAW, Secretary.

3. Bennett's-fill, Birmingham, November 27, 1847.

ELECTRIC TELEGRAPH COMPANY

ELECTRIC TELEGRAPH COMPANY,

LONDON, 345, STRAND, September 1, 1847.

COMMERGIAL TELEGRAPH

The works of the lines for commercial communications, between the places enumerated below, embracing a SYSTEM of TELEGRAPH.

The works of the lines for commercial communications, between the places enumerated below, embracing a SYSTEM of TELEGRAPHS for COMMERCIAL PURPOSES only, and distinct from that reserved for the special use of railways, being so far advanced as be admit of their completion by the commencement of the coming year, the directors think that the time has now arrived, when it becomes their duty to make known the arrangements which they contemplate for the accommodation of the public.

STATIONS will Be OPENED, in central situations, in the PRINCIPAL TOWNS, whence MESSAGES and DISPATCHES will be FORWARDED TO, and RECEIVED FROM, all the OTHER STATIONS of the ELECTRIC TELEGRAPH COMPANY.

In order to give to Merchants, Bankers, Mannineturers, and all connected with trade, the greatest possible amount of information, a ROOM will be RESERVED in each of the COMPANY'S STATIONS for SUBSCRIBERS, in which will be received, tabulated, and exhibited, all Intelligence of Commencetal or Public Interest—for instance:

SHIP LISTS, from the various Exchanges.

PRICES CURRENT.

STOCK EXCHANGE LISTS.

CORN MARKETS, from the various Towns.

PRICES OF LIVE STOCK, &c. &c.

In LONDON, a CENTRAL STATION, suited to the importance of the metropolic, is in COURSE OF ERECTION, in the immediate vicinity of the Bank and Royal Exchange, in this Station the whole TELEGRAPHIC NEWS of the COUNTRY will be CONCENTRATED, and FORWARDED in EVERY DIRECTION. And here, as in other towns, a ROOM will be RESERVED for SUBSCRIBERS to the RIGHT of ENTRANCE to ALL the SUBSCRIPTION ROOMS of the COMPAN—including the Central Station at London. The foregoing details some of the advantages of the Commercial Telegraph to subscribers; but the requirements of the public in general will be provided for by the establishment of offices, which will at all times be o

Darlington Newcastle Berwick Edinburgh J. LEWIS RICARDO, Chair

CLERICAL, MEDICAL, AND GENERAL LIFE
ASSURANCE SOCIETY.
Persons of all ages, and in every station, may assure with this society on very moderate terms. No extra premium is required for ses-risk, or residence in any part of Europe Persons wishing to visit, or reside in, other parts of the world, may also effect policies at a small increase of premium.

BONUSES.
The two first divisions averaged 222 per cent. on the premiums paid; the third, 22, per cent. The rowarm bonus, declared January, 1847, averaged rather more than 425 per cent.; and from the large amount of profit reserved for future appropriation and other causes, the bonuses hereafter are expected to exceed that amount.

Tables of rates, with the last full report, can be obtained of the society's agents, or by addressing a letter to

No. 99, Great Russell-street, Bloomsbury, London.

MANUFACTURED BY
W. AND J. GALLOWAY,

NATIONAL LOAN FUND LIFE ASSURANCE SOCIETY,

ATIONAL LOAN FUND LIFE ASSURANCE SOCIETY, 25, CORNHILL, LONDON.

Capital £300,000.—Empowered by Act of Parliament.

This institution embraces important and substantial advantages with respect to Life Assurances and Deferred Annuities. The assured has, on all occasions, the power to borrow, without expense or forfeiture of the policy, two-thirds of the premiums paid (see table); also the option of selecting benefits, and the conversion of his interests to meet other excessions.

cable); also the option of selecting census, and the lowest possible rates.

Assurances for terms of years are granted on the lowest possible rates.

DIVISION OF PROFITS.

The remarkable success and increasing prosperity of the society has enabled the directors, at the last annual investigation, to declare a fourth bonus, varying from 35 per cent. on the promiums paid on each policy effected on the profit scale.

\$	Sum.	Prem.	Year. Bonus added.			Bonus in Cash.			Permanen of Pri	Assured may Borrow.					
60	£1000	£0 3 4	1838	192 165 116	11 7	0	£109 87 74 54 49	1 0	9 10		10 3 18		£445 895 346 296 247	11 2 13	01348

The division of profits is annual, and the next will be made in December of the presen

BY HER MAJESTY'S LETTERS PATENT.

FULLER AND DE BERGUE'S VULCANIZED INDIARUBBER BUFFERS and BEARING SPRINGS FOR RAILWAY CARBIAGES.

The PATENTEES of this NEW and IMPORTANT INVENTION beg to amounce to
Engineers, Carriage-builders, and Railway Companies (especially those constructing new
Engineers, Carriage-builders, and Railway Companies (especially those constructing new
MIZED INDIA-RUBBER BUFFERS and DRAW-SPRINGS, for Passenger-Carriages
Waggons, Cattle-Carriages, Engines, Tenders, &c., and are prepared to execute Orders
TO ANY EXTENT.

NIZED INDIA-RUBBER BUFFERS and DRAW-SPRINGS, for Paisenger-Carriagos, Waggons, Cattle-Carriages, Engines, Tendors, &c., and are prepared to execute Orders TO ANY EXTENT.

On several of the principal Lines these Buffers have now been tried for many monogapat, under very able superintendence, and with decided success. The patentees, therefore, bell justified in stating, that they are prepared to furnish not only a more efficient Buffer than any hitherto in use, but on terms which will effect a considerable saving to Companies in the first outlay.

Specimens of the various kinds of buffers and draw-springs may be seen, and prices obtained, on application at their offices, No. 9, Arthur-street West, London-bridge, or at their depot, No. 2, David-street, Manchester.

The patentees will also be happy to furnish full information to all communications by letter, together with drawings of the best mode of application.—The attention of Locomotive Engineers is particularly invited to their BEARING SPRINGS for ENGINES and TENDERS, the recent trials of which have proved most successful.

TO ENGINEERS AND BOILER-MAKERS.

LAP-WELDED IRON TUBES, FOR MARINE

LAP-WELDED IRON TUBES, FOR MARINE AND LOCOMOTIVE STEAM-BOILERS,
TUBES FOR STEAM, GAS, AND OTHER PURPOSES,
ALL SORTS OF GAS PITTINGS.

THE BIRMINGHAM PATENT IRON TUBE COMPANY,
42, CAMBRIDGE-STREET, BIRMINGHAM, & SMETHWICK, STAFFORDSHIRE,
MANUFACTURE BOILER and GAS TUBES, under an exclusive Lioense from Mr. R.
Prosser, the patentee. These tubes are very extensively used in the boilers of marine and locomotive steam-engines in England and on the Comitment—are stronger, lighter, cheaper, and more durable than brass or copper tubes, and warranted not to open in the weld.

42, CAMBRIDGE-STREET, CRESCENT, BIRMINGHAM.
WORKS—SMETHWICK, STAFFORDSHIRE.
LONDON WAREHOUSE—NO. 68, UPPER THAMES-STREET.

TO ENGINEERS, RAILWAY, AND STEAM-BOAT COMPANIES, AND THE PROPRIETORS OF STEAM-ENGINES GENERALLY

COMPANIES, AND THE PROPRIETORS OF STEAM-ENGINES GENERALLY
BENJAMIN GOODFELLOW,
THE PATENTEE OF THE COMPOUND ACTING AND SELF-ADJUSTING
METALLIC PISTONS,
Desires to solicit the attention of the above parties to the said improvement; the peculiar advantages of which are, that they are particularly sensitive to any variation in the size of the cylinder, and will accommodate themselves to an oval, with a constant tendency to wear it cylindrical. The junk-ring, or cover, is brought down upon the bed of the piston securely and truly, leaving the packing perfectly at liberty between the plates—against which the spring presses the outside rings or casing, as well as to the surface of the cylinder, thereby preventing the escape of steam either past or into the piston—at the same time the friction being the least possible.

As there are many, no doubt, still unacquainted with the existence of his pistons, and the same being liable to be imposed upon by parties making and vending in unitable that the control of the post of the principle of construction of his improved metallic pistons—once in an action "Godfellow e. Barker," tried on the IIIT February, 1846, in the Court of Exchequer, before Godfellow e. Barker," tried on the IIIT February, 1846, in the Court of Exchequer, before Godfellow e. Barker," tried on the IIIT February, 1846, in the Court of Exchequer, before Godfellow e. Barker," tried on the IIIT February, 1846, in the Court of Exchequer, before Godfellow e. Barker," tried on the IIIT February, 1846, in the Court of Exchequer, before Godfellow e. Barker," tried on the IIIT February, 1846, in the Court of Exchequer, between the plaintiff. In this case the defendant's infinity of the plaintiff. In this case the defendant's infinity of the plaintiff. In this case the defendant's infinity of the plaintiff. In this case the defendant's infinity of the plaintiff. In this case the defendant's infinity of the plaintiff. In this case the defendant's infinity of the plaintiff.

A simular result attended a former action, "

o have existed before the plaintiff's patent.

A similar result attended a former action, "Goodfellow e. Swindlehuret," tried at the assizes at Liverpool, in March, 1845; the infringement of which was a series of wedgesom segments, acted upon by a flat-spring, thereby producing the compound action.

And, as a proof of the clearness of his established right to the said improvements, the
uries in both cases, after long and well contested trials, were not three minutes in findng verdicts for the plaintiff.

B. G. begs to say, that he is prepared to manufacture any size of metallic pistons, or
uckets, on the shortest notice; and has, at-present, all sizes at work, up to 85 inches dimeter, and air-pump buckets up to 48—specimens of which may be seen, and any pariculars had, at his works, Hyde, near Manchester. He can rebore the cylinders for the
he same (when required), without removing them from their places, and will guarantee
hat all shall be of the best insterial and workmanship, and engages to give every satisaction to parties who may favour him with their orders.

There are now upwards of one thousand four handred of them at work, and principally
it very large and respectable firms—a list of which may be had on application, as above.



FROST, NOAKES, & VINCENT (originally JAMES FROST),—ESTABLISHED 1818,
BRASS AND COCK FOUNDERS,

BRASS AND COCK FOUNDERS,

No. 198, BRICK-LANE, WHITECHAPEL, LONDON,
Beg most respectfully to call the attention of ENGINEERS, and those
PARTIES EMPLOYING the AID of STEAM, &c., to their highly
IMPROVED STEAM COCKS, WATER INDICATORS, SAFETY
VALVES, and their newly-improved SELF-ACTING HYDROSTATU
BALANCE, for feeding high and low-pressure steam-boilers.
F. N., & V., having, for a very long period, made it their particular
study to prevent the annoyance of leakages and waste, so frequently
complained of, can, with confidence, recommend the above articles as
superior to any hitherto produced, and at moderate charges.

DOUBLE FLANGE COCKS, of all sizes, in stock.

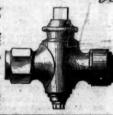
COCKS, from 1 to 16 ways.

STEAM COCKS serewed to
sult the petent wrought iron
tube, from 4-inch to 2-tick.

Every other DESCRIPTION of BRASS WORK used in STEAM APPARATUS, &c. Brewers, distillers, and others supplied.

Work made to Drawings.

N.B.—The original inventors of the above patented STEAM COCK.



HENRY BAKER begs to call the attention of Engineers and Proprietors of Steam-Engines, to bis of Engineers and Proprietors of Steam-Engines, to his NEWLY-IMPROVED STEAM-GAUGE, which shows the PRESSURE and TEMPERATURE of the STEAM, as seen in the drawing annexed. It is an ornament to the engine-room, and supersedes the ordinary mercurial gauge in these respects, by not being so cumbersome—much cheaper, and warranted accurate.

Boller explanators.

VACUUM-GAUGES, in brass frames, showing the barometric cale, from 22 inches to 30 inches. - Price, £3 3s. Ditto ditto, in mahogany, very elegant, showing the baro-netric scale in full.—Price, £3 3s.

HENRY BAKER.

BAROMETER, THERMOMETER, & STEAM INSTRUMENT MANUFACTURER, 90, HATTON-GARDEN, LONDON.

W. AND J. GALLOWAY, PATENT RIVET WORKS, MANCHESTER.

HALEY'S PATERT

The attention of parties who employ

Lifting Jacks,

C Y & SERRIGIAN

is respectfully requested to the superiority of those annexed, over those hitherto in use.



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December 11, 1847,